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SOUTH AFRICAN MINING JOURNAL

The Only Weekly Mining Paper in the Union and Rhodesia.

# South African

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e South African Mines. Commerce & Industries.

ESTABLISHED 1891

PUBLISHED EVERY SATURDAY

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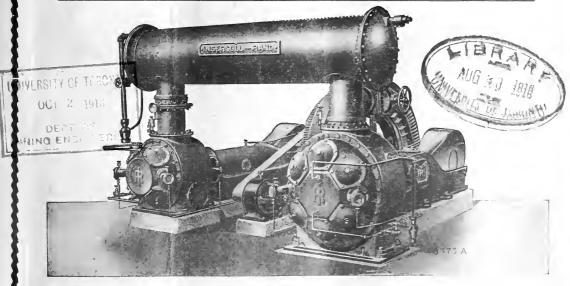
JOHANNESBURG, TRANSVAAL, SATURDAY, JULY 22, 1916. [Weekly, Price 6b.

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#### Declaration of Dividend No. 1 ('A' Shares).

NOTICE is hcroby given that Dividend No. 1 on "A" Shaces of 4. (four shillings) per share amounting to £100,000 has been declared for the six months ended 30th June, 1916, payable on 31st August, 1916, to Sha.eholders of "A" Shares registered on the 6th July, 1916.

The dividend will be payable to Shareholders on the South African Register by warrants to be issued from the Head Office of the Company in Johannesburg and to Shareholders on the London Register by warrants to be issued from the London Office of the Company.

Holders of Share Warrants to Bearer are informed that they will receive payment of the dividend on presenting Coupon No. 1 either at the Office of the African Banking Corporation, Limited, 63, London Wall, London, E.C., or at the Offices of the Consolidated Gold Fields of South Africa, Limited, at 12, Rue des Pyramides (being the Paris Agents of the Company). Coupons will be payable at any time on or after 31st August, 1916, and must be left for examination at either of the foregoing addresses at least four clear days prior to payment being made.

By Order of the Board,

THE CONSOLIDATED GOLD FIELDS OF SOUTH AFRICA, LIMITED,

Secretaries.

per G. C. WIIITE.

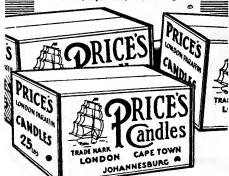
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# New Goch Gold Mines, Limited.

(Incorporated in the Transvaal.)

#### REPORT OF THE DIRECTORS

For the Year ended 31st December, 1915.

Submitted to the Shareholders at the Postponed Ordinary General Meeting, held on Monday, 17th day of July, 1916, at 12 o'clock noon, in the Board Room, General Mining Buildings, Iohannesburg.

To the Shareholders,

NEW GOCH GOLD MINES, LIMITED.

Gentlemen.

Your Directors beg to submit their Report on the affairs of the Company for the year ended 31st December, 1915, together with the Balance Sheet and Profit and Loss and Appropriation Accounts at that date. These are accompanied by the Reports of the Auditors and the Manager.

#### CAPITAL.

The Capital remains unaltered at £550,000, in shares of £1 each, all issued and fully paid up.

#### DEBENTURES.

As intimated in the previous Annual Report, the whole of the Dehentures then outstanding were redeemed on the 1st July, 1915, from which date they ceased to carry interest.

#### PROPERTY.

Your Property consists of an area of 149,5910 claims, of which 126.735 are on Reef and 22.856 situate north of the outcrop of the Reef Series. In addition to the above-mentioned claim areas, the Company holds two water rights, bewaarplaatsen, machine stands and other ground, as follows:—

- (a) Water-right No. 334, equivalent to 16.3848 mining claims in area, situate 3,250 feet south of the reef in the outcrop mine.
- mine.
  (b) Water-right Nos. 307-8, equivalent to 10.29 mining claims in area, situate 3,930 feet south of the outcrop in the Henry Nourse.
  (c) Machine stand adjacent to Water-right Nos. 307-8, in area 0.17 of a claim.
  (d) Boursenbeate on Water right Nos. 307-8, in area 0.67 of a claim.
- (d) Bewaarplaats on Water-right Nos. 307-8, in area 0.67 of a claim.

(e) Four mining stands on claims, (f) Freehold Stand No. 26t, in the Township of Jeppestown South.

#### PROFIT AND FINANCIAL.

The profit from mining operations for the past year was £91,356 3s. 9d., and with the addition of sundry revenue amounting to £3,769 0s. 5d.; the gross profit totalled £95,125 4s. 2d. This, added to the credit balance of £126,362 16s. 10d., brought forward from the previous year, gives a total credit of £221.488 ls., which has been dealt with as follows:—

Dividend No 6 of 5 per cent. £27,500 0.0

Dividend No. 6 of 5 per cent, £27,500 0 0			
Dividend No. 7 of 5 per cent 27,500 0 0			
	£55,000	0	0
Interest on Debentures	1,075	0	11
Premium of 8 per cent on £26.250 Debentures	,		
redeemed during year	2,100	0	0
Fremium of 10 per cent. on £86.225 Debentures	,		
redecmed during year	8,622	10	0
Debenture Trustees' Fees for 1915	125	Λ	Λ
Estimated Government Profits Tax for 1915 (plus		-	-
amount under-estimated for 1914)	4,336	2	3
War Levy-Moiety chargeable for 1915	1,071	14	6
War Levy—Moiety chargeable for 1915 Taxes paid to French Government	28		

Revenue appropriated-

113.975 0 0 Less Sales of Machinery and Plant 89 10 0

- 113,885 10 0 2,317 0 8 302 8 8

32.623 16 4

£221.488 1 0

#### GOLD PRODUCTION

The Mill of 120 stamps ran for 350.023 days, and (with tube mills) crushed 363,200 tons, yielding gold to the value of £346,269 17s. 3d., equal to 19s. 0.813d. per ton. The working costs totalled £254.913 18s. 6d. (14s. 0.446d. per ton), leaving a gross profit from mining operations of £91,356 3s. 9d. (5s. 0.367d. per ton). As compared with the previous year, the yield shows a decrease of 2s. 1.025d. per ton, and the working costs a reduction of 4.271d per ton milled.

#### ORE RESERVES

The fully-developed payable ore reserves at the 31st December last are estimated by your Manager at 668,600 mining tons of an average value of 5.51 dwts., calculated over an average width of 82 inches. In addition, there are 80,963 tons of partially-developed ore of an estimated value of 4.68 dwts, per ton. There are also 218,057 tons of developed ore of an average value of 2.88 dwts. over 49 inches, which are at present classified as unpayable.

Operations for the year 1915 show a reduction of approximately £30,000 in the working profit earned as compared with the previous period. This is due entirely to a fall of 2s. 1d. per ton in the grade of the ore milled (which gave the lowest average recovery value for any year in the history of the Company), and is attributable to some extent to the detailed faulting largely experienced in mining the lower levels of the property now being worked worked.

#### DIRECTORS.

You will be requested to elect two Directors in place of Messrs, Leopold Albu and Arthur French, who retire in accordance with the Articles of Association, but are eligible and offer themselves for re-election

#### AUDITORS.

You will be asked to vote remuneration for the past audit and to appoint Auditors for the ensuing year in the place of Messrs, Douglas, Low and Co., who retire, but being eligible, offer themselves for re-appointment.

GEORGE ALBU,

Chairman.

Johannesburg, 23rd February, 1916.

#### New Goch Gold Mines, Limited.—continued.

#### BALANCE SHEET AT 31st DECEMBER, 1915.

Dr.					Cr.	
To Capital (Authorised and Issued)— 550,000 Shares of £1 each, fully				At 31st Dec., Expenditure, At 31st	De	
paid, as per Balance Sheet at		£550,000	0 0	1914. 1915. 1918 £ s. d. £ s. d. £		d.
31st December, 1914 5 per cent. Debentures-		200,000	0 0	By Property 518,986 12 7 1,500 0 0 520,486		
As per Balance Sheet at 31st Dee- ember, 1914	£112,475 0	0		and Development—		
Less Redeeme: during 1915	112,475 0			Permanent works . 95,573 6 4 95,573 Machinery and plant		
Share Premium Account— As per Balance Sheet at 31st Dec- ember, 1914	106,250 0	0		(less Proceeds of Sales)     76,518 14 8 Cr. 89 10 0 376,429       Buildings     22,000 13 3 22,000       Reservoirs and	4 13	8
demption of Debentures and				Dams 3,813 12 4 3,813	12	4
Capital Expenditure— As at Dec. 31, 1914 £310,553 18 9 Add transferred from Appropriation				1,016,892 19 2 1,410 10 0 1,018,303 Expenditure on Development unre-	9	2
Account during year 1915 113,885 10 0				deemed 62,385 19 7 62,385	19	7
year 1510 115,660 to 0	424,139 8	9 530,689	۲.0	1.079,278 18 9 1,410 10 0 1,080,689	8	9
Note.—Expended in the		///////////////////////////////////	0 9	Furniture		4
annual redemption of Debentures from				,, Live Stock, Vehicles, etc 203 Stores on hand 12,636		
July 1, 1903, to				Investments	• •	
July 1, 1915£350,000 0 0 Expended on Equip				Witwatersrand Native Labour Association, Ltd.—602 shares of £1		
ment and Develop- ment in excess of				each, 12s. paid up, and deposit. Rand Mutual Assurance Company,		
Working Capital provided 74,439 8 9				Limited.—103 shares of £10 each,		
£424,439 8 9				£6 paid up. Witwatersrand Co-operative Smelt-		
2424,439 8 9				ing Works, Limited.—930 shares of £1 each, 8s. paid up.		
		1,080,689	8 9	Native Recruiting Corporation, Limited.—29 shares of £1 each,		
Sundry Creditors Unpaid and Unclaimed Dividends		32,421		runy paid. Deposit of 10s. each		
and Debentures			13 3	on the allotted complement of 2,184 natives (being part of the		
Sundry Shareholders Dividend No. 7 of 5 per cent, on		27,500	0 0	total liability under agreement of	8	0
£550,000. Government of the Union of South				,, Sundry Debtors	8	3
Africa—				Payments in advance— Insurances, Recruiting Fees, etc. 7,345	7	5
Estimated Profits Tax for 1915 . Estimated War Levy	1.256 18	ſ		Gold in Transit— Balance due in respect of 97 per		
under Act 24 of 1915 £2,143 9 0 Less Maiety to be				cent, advance of the estimated		
charged in 1916 1,071 14 6				value of gold produced in December, 1915 17,515 0 0		
	1.071 14	6 5,358	19 A	Estimated balance due on realisa-		
Balance of Appropriation Account— Amount unappropriated at 31st De-	-	0,000	12 0	tion in respect of gold unrealised since outbreak of war 8,364 0 0		
cember 1915 Contingent Liabilities.—		32,623	16 4	Cash on Hand	0	0
Witwatersrand Native Labour As-				At Bankers, on fixed deposit 26,000 0 0 £16,000 British Treasury Bills, less		
sociation, Limited.—8s. per share uncalled on 602 shares	240 16	0		discount, plus accrued interest 15,906 17 0 On Current, Dividend and Deben-		
Rand Mutual Assurance Company,	210 10	v		ture Accounts and on hand 11,132 16 2		
on 103 shares	112 0	0		53,039	13	2
ing Works, Limited.—12s, per						
share uncalled on 930 shares	558 0	0				
per native uncalled on comple- ment of 2,184 natives	1,092 0	(1				
	£2,302 16	0				
		-				
		£1,184,455	0 8	£1,184,455	0	8
					_	_

J. V. BLINKHORN, Secretary.

GEORGE ALBU, Chairman, ARTHUR FRENCH, Director.

To the Shareholders,

NEW GOOD GOLD MINES, LIMITED.

We report that we have examined the above balance sheet and accompanying Profit and Loss and Appropriation Accounts with the books and vouchers of the company in Johannesburg from 1st January to 31st December, 1915, and with the accounts received from London, and have obtained all the information and explanations we have required as Auditors. In our opinion, such Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the comany's affairs, according to the best of our information and the explanations given to us, and as shown by the Books of the Company.

Johannesburg, 29th February, 1916.

#### New Goch Gold Mines, Limited.—continued.

#### PROFIT AND LOSS ACCOUNT for the Year ended 31st December, 1915. -(363.200 Tons Milled).

Dr. Cost per t	***				,	Talue per	dia.	(	t
s d.	OII.					- d	1011.		
7 6.823 7 0 7.186 4 7.864 1 9.222 4 2.196 0 7.872 0 0.804	lo Mining , Sorting, Crushing and Transport , Milling , Cyaniding, General Mine Expenses , Mine Development, Permanent Works , Ilead Office Expendi-		37,145 10,875 30,060 32,116 21,483 11,910 1,216	6 10 16 0 1 11 1 11 15 1	2 ) 1 ) 1 - 1 1	2   1 669	., Cyaniding 28,892 250 - 121,2+1 1 82,487,1580zs. fine grad Less estimated additional	3 10 -£3p _ 1 ,	.7 3
	ture	£1,725 0 0 3,159 2 10 997 9 0 1,791 10 0	7,676	1 10		1 107	charges for Freight, Insurance, etc., on Gold unrealised	2.129	6
13 11.039 5 0.367	Balance carried down .		52,784 91,356						
18 11.406		£3-	44,110	15 9	1	5 11.106		£344.110 1	5 9
	To Balance to Appropriation Account	23	95.125	4 2			By Balance brought down , Additional Revenue Rents, Commissions, etc,	£91,356	
								0.440	
		£	5,125	4 2				£95,125	4 2

#### APPROPRIATION ACCOUNT.

To Interest Account—			i	By Balance at December 31, 1914	£126,362 1	6 10
Interest on Debentures . Premium on £26,250 Debentures	£1.075 0 1	1		Balance of Profit and Loss for the Year ended December 31, 1915,		
Redecmed at 8 per cent Premium on £86,225 Redeemed at	2,100 0	0		brought down	95,125	4 :
10 per cent	8,622 10 125 0		3.1			
Government of the Union of South		- 611,522 10	11			
Estimated Profits Tax, 1915 Plus under-estimated in 1914	4,286 18 49 1					
	4,336 2	3				
War Levy— Amount charged for 1915 in re- spect of moiety of this Com- pany's estimated proportion of Special War Levy of £500,000	1,071 It	6 - 5,407 16	9			
, English Income Tax		302 8 28 17 2,317 0	8			
No. 6 of 5 per cent. on £550,000, at June 30, 1915	27,500 0	0				
at December 31, 1915	27,500 - 0	0 - 55,000 0	٥			
, Revenue Appropriated for Redemption of Debentures and Capital Expenditure— Expended on the annual redemption		33,000 0				
of Debentures during 1915 Add Expenditure on Property£1,500 0 0	112. t75 0	0				
Plant Sales, etc 89 10 0	1,410 10	0				
•		- 113,885 10	0			
		188,864 4				
. Balance to Balance Sheet		32,623 16	-		£221,488	1 (
		£221,485 1	0			-

P.O. BOX 1553.

Telegraphic Address: "AINSCO."

TELEPHONE 356.

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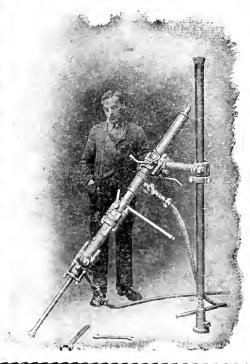
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# Mining Journal,

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South African Mines, Commerce and Industries.

Established 1891.

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July 22, 1916.

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#### Notes and News.

Daggaiontein
Progress.

Day that a cable had been dispatched to London stating: "The new shaft on the company's property has been located 6,000 feet west of Shaft No. 1, and sinking operations have now been started." A glance at the map shows that the location of the new shaft indicates that the mynpacht will probably be taken across the south-eastern side of the property, auguring well for Vogelstru shuilt and Vlak-

A letter has come into our hands dated far back in the month of February, 1908, before the pass-The Far East ing of the present Gold Law, which goes

fontein, its immediate neighbours in that direction.

Again. to show that the evidence adduced before the Select Committee, and lately pressed with a view to amendment of the Gold Law, was presented to the Government before the passing of the 1908 Gold Law. and was then strongly urged as a necessity. It shows that the Law was passed with a full cognisance of the difficulties of developing the Far East Rand, the necessities for larger mynpachts, etc., so that the Government in the conditions which appertain to-day cannot claim to have been ignorant of facts in the passing of the Law of 1908, which has, undoubtedly, tied up the development of the Far East Rand for all these years. The urgency of a law to particularly meet Far Eastern development was over and over again pressed upon the Ministers of the day. This fact gives food for reflection. If, after the passing of the Law of 1908, it takes eight years to bring home to the Government the absolute necessity of passing amendments, how much longer is it going to take to pass those amendments? Another eight years? The same urgeney which exists to-day existed in 1908, and it is no libel upon the Government to say that they have been sadly wanting in meeting the necessities of the case.

T.G.M.E. Mr. R. C. Warriner, in his annual consulting Engineer's report on the Transvaal Gold Mining Estates, writes:—

"From the General Manager's report it will be seen that in the Central Mines area development work during the year has been of a disappointing nature, the ore exposed being on the whole of a much lower grade, while no extension of the rich pay clutes in Duke's Hill and Peach Tree have yet been discovered. The fall of 3.93 dwts. in the average grade of the ore in reserve is due to the poorer grade of ore developed during the year, and also to some considerable extent to the increase of 8.16 inches in the estimated stoping width. At Vaalhoek, although the progress during the year has been slow, owing to the flooding of the river section of the mine, still the position remains unchanged, and the indications in the river section are excellent, especially in the vicinity of the dyke. When this section of the mine is once more thoroughly re-opened and furnishing a large portion of the mill requirements, a marked improvement in grade should be noticeable. The results from Elandsdrift, it will be observed, continue promising. The future of the mine, however, depends very largely on the grade of the ore encountered in the extension of the Blow into the hill. Should the width and value of this ore body continue, it will probably be advisable to further increase the milling capacity. Especially is this true in view of the marked reduction in costs accomplished during the year, which reduction, it will be seen, the Manager largely attributes to the increased production. As will be gathered frem your General Manager's report, it has been the policy of the Management during the vear to push prospecting work as much as possible, and in every direction where there are promising indications. The future of the Company, after a few years, largely depends upon the discovery of new payable mines in the ontlying districts, or extensions of the pay clutes at present being worked in the Central area—that is, on the farm Pomieskrantz. It is therefore essential to devete much attention to this part of the work. As there are a great many

In the review of Rand mining results contained in the report for 1915 of the Central Mining Corpora-

Cold Realisation tion mention is made of the point that, in valuing ore reserves, and in state-

ments of gold produced, it is the practice on the Witwatersrand to make allowance for the cost of realisation. To meet this modification the figure of 84s, per oz., or 42s, per dwt., has hitherto been used in place of the standard figure of 85s, per oz. War conditions have now raised the realisation charges by 1s, per oz., thus reducing the mine valuations of the gold produced to 83s, per oz. or 145s, per dwt. For the sake of uniformity, however, the tornier basis has been adhered to in the compilation of the figures above mentioned. The effect of the present procedure is, of course, to decrease the apparent yield, and this now becomes accentuated. To their October returns the Langlaagte Estate and Randfontein Central Companies added an intimation that to allow for war charges the gold will be taken at 83s. 2d. per ounce. The increased outlay under this heading has been dealt with in various ways by different companies, and will require to be borne in mind in any close comparison of results.

The Patents Act of 1907 with the Act of 1914 and rules made thereunder—after the war had begun—are said to be responsible for the following present grievances according to "Journ, Soc. Chem. Ind.," February 29, 1916; (1) The Comptedia of the British Patent Office has not amourently

Comptroller of the British Patent Office has not apparently the power to refuse acceptance of any application for a British patent, even although a patent for the identical invention may have been granted and published years before in a foreign country. (2) Any German desiring to appropriate a British invention for which a British patent has been granted to a British inventor, may do so in the following circumstances: Supposing the British inventor applies within 12 months for a patent in Germany for his invention, his application may be successfully opposed there on one ground or another and a decision issued in circumstances such that the British applicant cannot secure a hearing. In the case of an opposition to a British application of a German subject, proceedings are postponed to the end of the war. (3) Under the 1907 Patents Act, anything known or unknown for which a patent is applied in this country, however impracticable (for which a British patent specification has not been filed in the British Patent Office Library during 50 years before the date of application), is entitled to British patent protection-51 years anticipation does not count. It is urged that in the revision of our patent system (foreshadowed recently by Mr. Runciman, the President of the Board of Trade), there should, among other things, be included: (1) A real search to insure novelty and validity, before any application for a patent be entertained. (2) No patent to be granted unless novel or practicable. (3) The entire abolition of all renewal fees. (4 The extension of the period for each patent from 14 to 17 years. (5) Some form of a guarantee tor a bona fide inventor. (6) Simplified court procedure in patent cases, so as to limit the heavy expense of patent litigation. Moreover, in the formulation of any new patents Act, inventors, engineers and business men should be called into consultation more than patent counsel, lawyers and putent agents, as has hitherto been the case, which is a desideratum in any country.

\* \* \* \* \* Writing in mail week, the Financial News says: "There is

The Diamond
Market.

wery little change to record in the Diamond
world. The market continues active
and strong, and America is a keen buyer
for an qualities suitable for that market.

As announced last week, the Diamond Syndicate are showing their first tagers fontein shipment next week, and we are informed that applications for sights are very numerous. Diamond shares have again attracted attention on the part of investors. De Beers especially have been in demand, and a further enhancement in prices is regarded as probable in the near future, which will presumably be reflected in the hares of the other producing concerns. Our Capetown cor-

respondent cables us that the De Beers intend working the Bultfontein and Wesselton mines on a more extensive scale, and as these properties produce only white stones, which are at the moment the only class of goods in demand, this seems to be the correct policy, provided the De Beers bear in mind that the market will only take a certain amount, and do not over-produce. We are also informed, although we cannot give it as definite information, that the De Beers and their allies (the Diamond Syndicate), intend to raise prices by a further 5 per cent., in order to meet the new export tax. Bearing all this in mind, Diamond shares are thought to look attractive at their present low levels."

The position of the Netherlands Bank of South Africa improved sufficiently in 1915 to permit the payment of 4 per cent., which is the of South Africa. rate distributed for the four years preceding the war. The board states that

during the last few months of the year the position of affairs in South Africa showed a gradual improvement. A comparison of the amount of the liquid assets of the bank with the amount of investments as at December 31, 1915, shows that there still prevailed a lack of opportunity for sound and profitable employment of the bank's funds in South Africa; but, owing to the revival of business in general, this was not so marked in the latter part of 1915. This gradual revival of business is indicated by the increases of £17,000 in advances, £7,000 in remittances and bills discounted, and £8,000 in the amount of bills for collection. The establishment of three new branches in the Transvaal contributed to this improvement. The net profit for the year, including £500 brought forward, was £12,700, which goes against £10,200 for 1914.

The statement of the Union accounts for the first quarter of the financial year appears in the last Gazette, and is chiefly interesting for the light it throws upon the progress of the new Union Five Per Cent. Loan. A Trea-

sury announcement issued a few days ago showed that the total amount applied for by the public, presumably up to the end of June, was £3,514,900, and the number of applications had been 2,426. But of these applicants, 384 were holders of Treasury Bills, who took advantage of the terms upon which the Five Per Cent. Loan was issued to transfer their holdings into the local stock, the total amount of such conversions being £1,191,650. This leaves a total of new applications to the amount of £2,353,250, which may be regarded as a very satisfactory figure. It should be emphasised that applications are still being received, and that before the lists are closed a very much larger yield may be anticipated. We gather from the Gazette statement that the actual amount of stock now registered under the loan is £6,063,192. Some three millions of this amount represents the conversion of Treasury Bills held by the Public Debt Commissioners, who, it will be remembered, took up in a similar manner a large amount of the Union loan raised two or three years ago.

The report of the Barrett Gold Mining Company for the year ended February 29, shows a profit of £251,

Barrett Cold. which reduced the debit balance standing

to that account to £12,005. The following tonnages were mined and milled during the year: Rautenbach's, 24,437 tons; red ground deposits, 19,929 tons; Survain, 1,225 tons; a total of 45,591 tons, dry weight, which is the largest annual tonnage yet handled, and is an increase of 8,975 tons over last year. The yield was 4,026ozs, fine gold, which is estimated to realise £16,838, after allowing for the unusually heavy charges now existing in connection with realisation. The costs were 68, 94d, per ton, or a reduction of nearly 1s, per ton upon last year, which more than counterbalanced the slight fall in the average values. At Suzerain Mine, the open workings were cleared and the mine put into good working order, the existing tramways connected up and brought into active operation towards the

close of the year, but so far the value of the ore sent down for treatment had not reached expectations. The manager reports that the wattle plantations are making good progress. No fresh areas have been planted during the year. All the mine requirements for timber have been supplied from the company's own property.

The report of the Transvand Estates and Development Company for the year 1915 states that there Transvaal Estates is some diminution of income from inand Development, terest and dividends, due to default on certain securities and to the increased rate of income tax. The net result of operations is to reduce the amount brought forward to £7,874, which will be carried forward. In regard to investments provision has been made for the addition of £13,500 to the reserve of £15,000 created last year in view of its being impossible at that time to assign any market value to the bulk of the securities. It has been thought desirable to merge with these reserves £10,000 set aside at the same time as a general provision against contingencies. The investment reserve now suffices to cover the whole of the depreciation exhibited in market prices at the end of the year, without taking into account the recovery in value that bas taken place in certain items. The net results of farming operations were unsatisfactory, and it has been found necescary to make provision to the extent of £11,452 against the lesses thus incurred. The conditions to which this adverse outcome must be attributed, including a disastrous drought at the critical period of the agricultural season, affected all farming operations in the northern parts of the Transvaal. A certain recovery in the value of real estate in Johannesburg has been in progress for some time past, and sales have teen effected at prices which compare favourably with the figures to which the properties concerned have been written down in our books. The Native Lands Commission has made its report, the substance of its recommendations being that the Government should expropriate extensive areas of land in the Transvaal in order to add to the reserves already provided for the exclusive occupation of the native The areas thus recommended include the following properties belonging to the company:—Oliphants River block (185,146 acres), Normandy block (62,651 acres), three Rustenburg farms, seven Waterberg farms and 15 Bechuanaland farms. To what extent these recommendations will be acted upon by the Government and the Parliament of the Union remains to be ascertained.

Though the developed ore reserves of the Planet-Arcturus amount to 309,115 tons, of an average assay value of 12.18 dwt, per ton, in consequence of the dislocation of financial conditions by the war they cannot be turned to profitable account pending an improvement in the monetary world. The Gold Fields Rhodesian Development Company has assisted to the extent of £98,213, the loan being secured by a mortgage over the whole Planet-Arcturus undertaking. Milling by tributers at the Planet mine—work which gives an imperfect extraction—has yielded results which are well up to the consulting engineer's calculations.

Tati.

Ta

#### TOPICS OF THE WEEK.

# SIR LIONEL PHILLIPS ON WAR AND MINING

I'm, visit recently paid to the Rie I by Sir Lionel Phillips nabled him to speak at the Certifid Moring meeting in mail week with unusual interest and pull or tyon our industrial problems. A full report of his speech appears in another part of this issue, and our purpose lere is merely to indicate the passages that strike us as the most noteworthy and apposite. Among matters of general interest and importance he mentioned that the death rate on the mines, though slightly higher than in 1914, showed a considerable decrease on former years, and there appeared every prospect in time of very considerably reducing, if not entucly eradicating, the disease of miners' phthisis. The new Phthisis Act, he admitted, would certainly involve additional outlay, but, owing to the precautions now taken in munes and the additional steps which were to be taken for combatting the trouble, he believed in a very few years the amount of sufbring and the great outlay involved might be reduced to quite small proportions. As a matter of general interest, he mentioned also that the gold output of the world in 1915 was £37,000,000, of which the Transvaal contributed £38,627,000, or about 10 per cent. The mines in which the Central Mining people were associated produced gold to the value of £14,840,000, equal to 371 per cent, of the whole Transvaal output. This was the same proportion as for last year. Their contribution towards the dividends of the Witwatersrand goldfields amounted to 50 per cent, of the whole. In discussing the prospects of the Crown Mines in depth, Sir Lionel said: "It may interest shareholders to know, it they have not read his admirable papers, that Dr. Mellor, the Government Geologist, does not support the theory of gradual impoverishment of the beds of the Witwatersrand, although he appears—to think that at greater depths the gold may be more concentrated in special channels." From that, it was but a step to the question of From that, it was but a step to the question of the Far East Rand, in regard to which S.r Lionel had some very valuable advice to offer. As representing the opinion of one who is not only himself a financial authority, but is also in daily touch with the best financial opinion in the heart of the Empire, the value of the views of Sir Lionel can hardly be exaggerated. Having regard to the great risk involved in opening up ground on the Far Eastern Rand, he declared he regarded the value of virgin soil as of very small moment compared with the large outlay required for testing it. "According to the latest scientific information, we may expect to find in that region sections of highly payable ground, and sections almost, if not entirely barren.  $\Lambda$  great deal of that country is overlain by dolomite formation, which, as everyone knows, harbours large reservoirs of The cost of sinking shatts there on that account may be much higher than on the Central Rand. Generally speaking, it may be said that from £800,000 to £1,000,000 has to be spent there upon a given property before any definite knowledge is secured to indicate final success or failure. Before we joined in the enterprise with regard to Daggafontein we had the advantage at least of the information supplied by one deep level shaft which had encountered the reef at a payable point. It would be folly, however, to shut our eyes to the speculative nature of deep level enterprise in that locality, good as the results have been in some instances, notably those of the Modderlontein, Brakpan and But there are in the neighbourhood also Springs areas mines upon which large capital outlay has been insurred. and the reefs encountered without encouraging results. I mention these dormant areas now because I think it is to be regretted that the Union Parliament closed its session without amending the present law under which there does not seem much likelihood of placing them. As deep level blocks take years to bring to the producing stage the sooner the work of sinking shafts begins the better for the country." Referring to local agitation by those who advocate State industrialism, Sir Lionel said: "The Minister of Mines has announced that the Government is considering

the appointment of a Commission to investigate during the recess the feasibility of State mining. If the Union Parliament after inquiry sanctioned such a course of action we should watch its operations as large taxpayers, with attention, anxious interest and whole-hearted good wishes for its success." To that very qualified blessing, however, he added the warning: "I think that such ventures are best lett to private enterprise, but the point is that about five years are required to find out whether a prize or a blank is drawn, and it is hence advisable to get a move on. I venture to point out, however, that the revenues of the State are far more benefited by the active working of mines-in Customs, railway revenues, etc., from mining machinery, supplies, and the wants of the population—than from any direct profit State ownership could bring. Moreover, private enterprise has to shoulder the burden of possible failure. The best method of dealing with such property is, I think, to get substantial people to take the risk and to do the work, naturally with an economy in their own interest not always agreeable to the advocates of State enterprise. In the event of success the State might reasonably allow them a preferential charge upon profits to cover interest on actual outlay, and then divide, in proportions to be agreed upon, any surplus profits. Unless these areas contribute there will be a serious decline in the gold output, with adverse consequences in the sphere of employment and in the annual exports and revenue of the country." It is earnestly to be hoped that these wise words will not be forgotten. Likewise the peroration containing some sound, business-like guidance for us all. "After the war, it is very difficult to foresee what effect the enormous consumption of capital and piling up of debt by the belligerent countries is going to have. An inevitable outcome will be a change in commercial conditions. It would be profitless for me to speculate upon the radical changes in commerce which may result from fiscal changes, but I feel bound to reiterate what is common knowledge among men of affairs, that the stress of life is bound to be more severe than hitherto. Changes will, no doubt demand a regeneration of industrial methods, habits and practices, and this will have an effect upon us all from the top to the bottom. But for the restoration of pre-war prosperity two paramount duties will be demanded from us all, thoroughness and hard work. Those are watchwords for all who hope to lead their fellow-men." This is the inspiriting message Sir Lionel Phillips sends to us in South Africa -a message not more welcome for the end of the war than tor to-day, when it grows every day more difficult for those who must stay behind to work and watch and wait!

#### EAST RAND MINING RISKS.

The objections of capitalists to the existing proposals of the Government with regard to the leasing of East Rand mining areas have largely been based upon the nature of the risk which is likely to be associated with ventures in that part of the country. So far, the records of the companies which are working along the northern fringe of the basin and to the immediate dip, seem to show that some of the richest reef areas of the Witwatersrand are located in that neighbourhood. The proof of the existence of long and moderately wide patches of profitable ore, however, has made it clear that the present prosperity may be attributed to the fact that the companies concerned have been fortunate enough to carry their development well into the richer zones. The impression appears to prevail that this streaky character of the Far East Rand in the matter of values is confined to that area, and that westwards of the great bend, to the south of the Apex, in the vicinity of the Rand Collieries and Van Dyk, a greater uniformity may be looked for. On reflection. nevertheless, it is not easy to see why a physical phenomenon of this kind should stop short at the western perimeter of the Far East Rand basin. The contours of the ere body in depth are due to earth movements, which took place at a period or periods long subsequent to the laying down of the auriferous conglomerates, and therefore, according to the best informed geological theory, some time after the distribution of the gold contents in their present channels. There is, then, no reason whatever to doubt that a condition of things that has been shown to prevail in the area covered by the Government Mining Engineer's memorandum is con-

tained westwards indefinitely, in a diminishing degree, of course, but for a distance that can only be measured as investigation is carried further in that direction. The evidence of the Rand Collieries and Van Dyk is not sufficiently extensive, and is somewhat complicated by the pre-sence of broken ground, such as might very naturally be looked for in that particular neighbourhood, but the case of these two companies was quoted by Mr. Wallers recently. before the East Rand Commission, as showing the risk which attended the employment of capital for shaft sinking, development and preliminary equipment generally in un-proved areas. At the closing down of the Van Dyk in 1910 the directors referred to a report of the Consulting Engineer, in which it was stated that "although the footage driven includes a number of stretches of good grade and payable value, these have not been so continuous or numerous as to alter the position of your company to a sufficiently large extent, in respect of payable ore opened, from that of last year, as to justify the erection, as yet, of a reduction plant." In the course of his speech as Chairman at the 1912 meeting of the Rand Collieries, Sir George Albu said, with regard to the ore values: The foregoing values serve to show that a very substantial percentage of the work effected during the year resulted in developing payable ore, and yet I feel fairly confident that we have so far been exploring the poorer zones of the mine, and that further development operations on an extended scale would result in disclosing a higher grade reef with a larger percentage of payability." The financial resources of neither of these companies were strong enough to enable them to continue operations, and both were eventually closed down. In view of this latest theory of the deposition and physical character of the conglomerates of the Main Reet zone, however, as propounded by Dr. Mellor, it is not unlikely that the more or less indefinite results obtained in the mines reterred to are in some way due to the very probable extension of these features towards the west, and that further exploration may reveal the existence of zones which are sufficiently profitable and extensive to justify the hopes which are still entertained with respect to the properties. A vastly more striking instance of the petering out of fairly high values over comparatively large areas is provided by the records of the East Rand Proprietary Mines, Limited. The development operations of the past year, as the Chairman remarked at the last annual meeting, as far as values were concerned, were most disappointing. The drives, in short, have entered into a zone or zones of inferior cre, and the engineering staff have to face the necessity of carrying out a scheme of exploration which will be likely to give definite results of an improved kind at the earliest possible date. Here, again, we appear to be confronted by the operation of natural laws to the understanding of which the investigations of Dr. Mellor in the Far East Rand, in all probability, have provided a useful key. On the assumption that the method of distribution which has been shown to prevail in the Modderfontein-Brakpan area, and to have persisted at least as far as the Nigel, has found place also for some distance nearer the source in the direction of Boksburg and Germiston, there is at once a simple and reassuring explanation of those conditions which have been foreseen, no doubt, to some degree, but have finally asserted themselves very emphatically at the E.R.P.M. If the assumption be a reasonable one, and there is nothing to support a contrary view, there is the possibility of re-entering payable zones in due course as the inclines are carried along the dip. It is a fortunate circumstance that the policy of the company has for some time past been directed towards the providing of an adequate fund for development purposes, and there is, therefore, every justifieation for the hope that the exploratory schemes which have been decided upon will have gratifying results. It is a matter for regret that the development operations of the Cin lerella Consolidated are not of such a definite kind as to be of much use in confirming or throwing light upon the orechannel theory. Future work in the whole Eastern area, however, will doubtless be largely guided by the evidence already gained in the Far East Rand basin, and since the line of inquiry has been so clearly marked out there is likely to be an abundance of data bearing upon the subject at an early period from mines where the existence of such information has possibly been disregarded or overlooked.

#### ECONOMIC RESOURCES OF GERMAN EAST AFRICA.

#### Mining, Railway and Labour Aspects.

(By F. A. G. Papilit

A short review of German East Africa is now apposite. The railway starting from Tanga has been taken up the valley of the Pangani to Moshi, on the shoulder of mighty Kilimanjaro. Thence onward it was intended to take this railway through the fertile plateaux of Meru over the Masai steppes on to Muanza on the shore of Lake Victoria Nyanza, there to meet the overland trunk road coming from Dar-es-Salaam. the capital, via Tabora, which forms the junction of the Ujiji railroad to Luke Tanganyika. All these railroads are tapping very promising agricultural tracts and pastoral areas of immense extent and possibilities. They traverse a region inhabited by numerous populous tribes, which even now form the backbone of all progress so far achieved. The outlook for commercial advancement and enterprise is so promising in this vast territory that the Government built the railways upon the most perfect plan of permanent way and bridge construction, with heavy rails and fine rolling stock, under the conviction that rapid development would follow. In the neighbourhood of Muanza, on the one hand, there is a considerable auriferous area being exploited now with good results; and on the Ujiji side we find a continuation of the Congolese copper and iron and coal formation. Our biggest railroad builder in the Congo-Katanga region considers this Ujiji railroad as "one of the coming most important arteries of Africa below the Equator." We must prepare for more than one very pleasant surprise when British enterprise is once free and at liberty to enter this field. I say this advisedly; for whatever benefit German "eulture" was intended to be to the rest of the world, the German genius certainly did not contemplate the inroads or activities of toreigners into their colonies in the slightest degree. Boycott and brusque measures for the stranger in their sphere every time—no British or French firms trading in any German colonies, while quite the reverse was taking place when it came to flooding the former with the latter's stuff in evermereasing volume. German East Africa is quite as good an asset as the British Protectorate, in fact development has been much more pronounced in the former. We all remember the rubber boom of 1910, and how millions of British money was sunk in the German plantations. Unfortunately, that money stayed therefor the immediate fall of price for the commodity precluded that peculiar species of rubber from being exploited profitably, although intrinsically valuable. where the rubber did not pay, sisal hemp certainly will and does. It is now recognised that African East Coast sisal is the finest in the world and always a couple of pounds ahead in price of the original Yucatan variety. So we have witnessed in Eastern Africa the interesting phenomenon of an economic plant being taken from one hemisphere to another with great advantage to the development of the resulting product. There are hundreds of thousands of acres at present under sisal in German East Africa, with probably 30 to 40 modern "decorticating" establishments run by steam and oil engines and served by hundreds of miles of feeder field-railways which turn out from ten to fifteen thousand bales of fibre per mouth. It is impossible to "over-produce"; for the commercial needs of the world increase their requirements of hard fibres year by year. It is a well-known fact that under normal conditions of trade all these fibre establishments earn from ten to twelve per cent, clear profit. German East Africa does now and will increasingly absorb many millions of pounds' worth of cotton goods, enamelware, hardware generally, and provisions annually. native population is numerous and progressive, and this country can grow immense quantities of cotton; for there are vast stretches of fertile plains capable of irrigation by means of the numerous existing rivers—the Pangani, Rufiji and Rovuma; and best of all, there is a native population to deal efficiently with the cultivation. It is one of the many German "dreams" to create in East Africa a source of supply for the looms of Saxony and Silesia-quite feasible too. The Uganda Railway system could be readily linked up with the Kilimanjaro line by means of a short "joint" of eighty

tailes from Voi ruanne the 2 T to Moshi. This link" railway has been 1 1 multary authorities once this article was written 1 munication of the clonies and linking up to the radic sewill be an important factor in local development. It will eventually mean rail connection from the Great Lake region down through the Congo, Rhodesia and the Portuguese colonies as far as Capetown, and also direct transit from the East Coast to the West over the Lobato Bay system new pushing castward into the Katanga. Dreams like this to-day will be a reality to-morrow. The era of liberty and progress now dawning should find Africa prepared to communicate freely by a network of railways east, west, notificated south. Water conservation and irrigation are in lispersable factors in the inture development of this part of Africa. Both can be carried out very easily in the Kilmanjaro region where glacier streams abound. By means of this ample store of water it would be feasible to irrigate more than 100,000 acres of fine land, upon which cotton and maize and beans, etc., could be grown in an excellent manner. A vast layer of splendid limestone, some of it pure felspar, extends for some ten miles between the Bura Range and the Sagalla Hills. Corunds and tourmalines have been found in this formation. which may yet on examination prove to harbour more valuable treasures. Coal and shales have been reported several times in this neighbourhood; but, so far, lack of investigation has failed to reveal anything of value. Further down towards the coast, and not far from Mombasa, there has been located an important formation of san Istone; and a small river which has its source there is heavily impregnated with saline matter. The sandstone shows in patches, and the "old red" specimens which in other countries indicate oil. A curious phenomenon is witnessed in this connection some ten miles out at sea from Mombasa Harbour, where local fishermen in their fragile outrigger canoes can follow their calling in all kinds of rough weather owing to a clearly perceptible "oil slick" which they put between themselves and the rough seas. To leeward of it all is smooth, probably owing to the submarine outlet of one of the stupendous fissures which are known to exist in the mother-rock. Evidences of these occur in the Taru Desert near Mackinnon Road Station, on the Uganda Railway, where they are found in many places filled with inexhaustible stores of water which used to supply the caravans in the old days before the railroad was built to the Lake. It is well known that petroleum exists inland in the neighbourhood of Lake Baringo, but this find has not been followed up owing to the macressibility of the locality. This part of Eastern Africa may in some respects be likened to Mexico, which has a tremendous volcanic backbone of vast extent and terraced chains of mountains and hills down to the sandy and semi-

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arid sea-board. Whether the comparison will hold good, as far as the finding of rich stores of subterranean petroleum is concerned, remains to be proven, until capitalists will come forward and face the expense of adequate boring. This may cost a lot of money, but will, I hope, be earried out in the future—the sooner the better. Again, the scientific and systematic conservation and storage of rain-water will play a most important part in the agricultural development of the region. This can be done at comparatively small cost; for the topographical conformation and geological composition of the country lend themselves admirably to the pur-As far as we know at present, there are no gold or silver lodes in the British part, and yet it is curious that gold-mining has become quite a paying industry in the Lake region of the German Colony not a hundred miles from the British frontier; and on the other hand we have certain knowledge of auriferous richness in the South Abyssinian province of Wollaga which marches with the British sphere in the north. Much remains to be done in the way of prospecting before the matter is settled either way, but it is curious that there should be a barren gap in between, when there is really no difference in the formation of the country. It took many years of unremitting effort and much expense to find the lodes from the old surface workings. A mineral find would be the immediate making of the colony; but whether it would remain an unmixed blessing would be another question. I personally should prefer to see a steady onward agricultural and stock development to a lurid ephemeral rise on the crest of a gold-rush. The most promising indication of coal has been proven in the Mara River district of Kavirondo near the Lake shore. The finding of a good solid measure or seam there would be of inestimable value, but more reliable searchings have to be carried on before anything definite can be said regarding it. Lake Victoria, in Uganda, we have a populous rich agricultural country which in the last twenty years has made enormous progress both as regards enlightenment of its people and cultivation of their broad acres. There is no labour question in Uganda; the people are quick-witted and diligent. Uganda and Busoga and Toro will be able to absorb in the near future an enormous amount of home-manufactured goods. They are preparing the products to sell in exchange in ever swelling volume. These portions of the Empire will be one of the premier places for the activities of the British trader, manufacturer, stock-raiser and planter. There are few places left on earth where judicious investment of capital will bring better and safer results under wholly safe and undisturbed conditions,

F. A. G. Pape.

The best " Reef Traveller " is the South African Mining Journal.

#### Lonely Reef G.M. Co.

The following are particulars of the output of gold from the Lonely Mine for June:-Mill ran 676 hours; crushed, 5,020 tons; fine gold recovered, 842:162ozs.; value, £3,539 15s. 4d.; slimes treated, 5,020 tons; fine gold recovered, 2,391.639ozs.; value, £10,056 13s. 7d.; total recovery of fine gold, 3,233 801ozs.; total value, £13,596 8s. 11d.; estimated profit, £5,048.

#### Ohlsson's Cape Breweries.

The report of Ohlsson's Cape Breweries, Ltd., for the year ended March 31st last, makes a very satisfactory comparison, all circumstances considered, with the results achieved in the previous financial year. The profits were slightly higher for the period under review, and, but for the prudent policy which the Directors have wisely elected to follow in the future, the previous year's rate of dividend on the ordinary shares of 8 per cent., absorbing £24,000, could have been comfortably maintained, as the balance earried forward on the present occasion exceeds £30,000, comparing with £24,400 brought in a year ago. In view of the increase in the prices of all materials, in many instances to a serious extent, the higher rates of freight, and the larger demands made by taxation on the company's financial resources, the Board have determined to recommend a dividend on the ordinary shares for the past year of 6 per cent., absorbing £18,000, while they record that the irregularity in available means of transport has necessitated the holding of much larger stocks at the breweries. The profit for the past year, after providing for expenses, repairs, and maintenance of freehold and leasehold properties, and after allocating a suffieient sum in respect of bad and doubtful debts, amounted to £82,622.

#### MINING EXAMINATIONS.

Study for Certificates as Mine Captains, Mine Managers, Surveyors, Mechanical and Electrical Engineers, and Engine Drivers. Private Tuition and Correspondence Lessons, where personal tuition is impracticable. Practical Mathematics and Electrotechnics. E. J. MOYNIHAN, Consulting Engineer, Cuthbert's Buildings. Corner of Eloff and Pritchard Streets, Johannesburg, P.O. Box 2061.

#### VILLAGE MAIN: CONSULTING ENGINEER'S REPORT.

Mr. H. Stuart Martin, in his annual report on the Village Main Reef, writes: For the first nine months operations proceeded quite normally and satisfactorily, the average tonnage milled being 30,490 tons per month, with an average monthly profit of £22,754. At the end of September a movement of strata took place, resulting in a severe shock, which was communicated to the solid ground surrounding the vertical and incline shafts on the 9th and 10th levels. damage was of such a character that hoisting from the lower levels of the mine was entirely suspended, and new levels had to be driven in the solid ground, together with new ore bins. The bursting of the solid ground took place in the vicinity of the area referred to in my last report, i.e., in a section of the mine where the surrounding excavated stopes had been filled with sand. The lower portion of the vertical shaft has been filled with sand, and every precaution is being taken to strengthen the main arteries of the mine. The repair work entailed by the accident occupied three months; during this period a comparatively small tonnage drawn from upper levels was milled, and a loss on current workings, amounting to £30,008 17s. Id., was incurred. Operations at the time of writing are once again being conducted under normal conditions; it is, however, unsafe to predict continuous mining up to the full capacity of the reduction works, as frequent shocks are still to be looked for as the excavated areas become more extensive and the overlying rocks subside. The re-valuation of the ore reserve at 31st December, 1915, shows the position as follows: -Main Reef, 35,450 tons, 41 dwts. in value; Main Reef Leader, 280,100 tons, 81 dwts. in value; South Reef, 319,500 tons, 6.6 dwts. in value; a total of 635,050 tons, 7.1 dwts. in value. The remaining ore in the mine indicates a life of approximately two years, the scale of operations gradually declining as greater difficulties are met in extracting isolated bodies of ore spread over a large area. Mr. Robert Raine resigned the management of the mine at the end of September, after being in charge of the property for fourteen years. He was succeeded by Mr. H. C. Hilton, and to both these gentlemen, together with the staff and employees, is due great credit for the manner in which the dangerous and difficult mining work has been conducted with a minimum of accident.

The Manager, Mr. H. C. Hilton, writes, inter alia:—Mining and Milling.—The total tonnage mined during the year was 357,032 tons, of which 15'6 per cent. was sorted out as waste, and the remaining 301,360 tons delivered to mill. Ore Reserve.—The payable ore reserve standing in the mine at 31st December, 1915, is estimated at 635,050 mining tons. The 219,000 of ore which appeared in last year's estimates, under the heading of "Partially Developed," have all been absorbed in the current estimate of payable ore reserves. Revenue and Costs.—The working revenue for the year amounted to £495,257 4s. 7d., or £1 12s. 10'091d. per ton milled. The working profit was £167,674 15s. 5d., or 11s. 1'424d. per ton Working costs were £327,582 9s. 2d., or £1 1s. 8'667d. per ton milled. This shows a decrease of revenue of 3s. 3'901d. per ton milled, whereas the working costs are increased by 3s. 7'954d. per ton milled compared with the previous year. Earth Tremor.—As the result of an earth tremor on September 28th, a heavy fall of rock took place between the 9th

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and 10th levels, causing extensive dam  $z_2$  to the vertical and cacline shafts. Repair work was taker in hand immediately. and it was found that entirely new arrangements for handling rock from the lower levels would have to be made. The 10th level station, and the bre bin from the incline to the vertical shafts, were so bally crushed that it was found imracticable to re-open them, and a new cress-cut and ore has had to be made. Extensive repairs were also necessary to the pump columns and electric cables. Mining on a small scale was carried on from the upper levels, but the ore was of low grade, and a less for the last quarter of the year was incurred. Hoisting from the lower levels was re-started on December 27. Several minor delays occurred after that date, but these are gradually being overcome. Several very severe earth tremons have been experienced during the past three months, and it is satisfactory that, so far, no further serious d onage has been done, but it is impossible to say what may happen in the future. Every precaut in is being taken to minimise the effect of future tremoss by timbering and strengthening up weak places in the mine. Forecast for Current Year.—Under normal conditions, I do not anticipate any difficulty in milling 30,000 tons per month for some months to come; but, as the number of working places decreases, a falling off of tonnage will be inevitable. Now that so much of the tonnage is obtained from reclamation it becomes n creasingly difficult to pick out high-grade ore; and in future, as reclamation work proceeds on the various levels. it will be necessary to start at the boundaries and work towards the shaft, taking out all payable ore of whatever value as it comes. Capital Expenditure.—There has been no capital expenditure, but sales of plant not required amounted to £6,156 10s, 10d. Staff.—I have pleasure in placing on record my appreciation of the staff for their loyalty and service, especially during the last three months, under most trying circumstances,

#### Springs Mines.

The Directors' quarterly report for the period ended 30th June, 1916, shows.—Development.—The details of the quarter's development, together with a summary of the work so far accomplished, are as follows:-For quarter: Total todage, 4.971 feet; footages on reef, 3.811 feet; footage rampled, 3,805 feet; reef width, 14,20 inches; assay value, 17,30 dwts. Previously reported: Total footage, 38,173 feet; footage on reef, 22 488 feet; footage sampled, 25,690 feet; rect width, 19.97 inches; assay value, 18.35 dwts. Totals and averages: Total footage, 43,144 feet; footage on reef. 26,299 feet; footage sampled, 29,495 feet; reef width, 19,22 inches; assay value,  $18.25~{\rm dwts}$ . Of the footage sampled during the quarter,  $43\frac{1}{2}$  per cent, was in payable areas and averaged 24.90 dwts, over 19.35 inches. A similar analysis of the total development to date shows 51 per cent, of payable footage, averaging 25.63 dwts, over 24.12 inches. An estimate of the total tomage indicated by development accomplished to 30th June, 1916, shows: Payable, 1,494,000 tons at 9.94 dwts.; unpayable, 1,726,000 tons at 1.92 dwts. The payable toninge is calculated over an average assumed stoping width of 56½ inches, and represents 46:4 per cent, of the total. Equipment.—The work on the reduction plant continues to make good progress. Rand Water Board.

—The Rand Water Board took 57,178,000 gallons of water during the quarter. General.—The options on 315,000 shares at par arising out of the debenture issue have been fully exercised, but 50 shares have not yet been allotted pending certain logal formalities being complied with. In order to satisfy the options exercised and to provide for the option on 55,000 shares still held by the guaranters of the loan, the registered capital of the company has been increased to £1,000,000, whilst the issued capital now stands at £944,950. to £82,622.

#### A SOUTH AFRICAN LESSON IN GERMAN METHODS.

#### Chief Engineer of the Victoria Falls Relates its International Financial Vicissitudes.

In the course of his inaugural presidential address before the South African Society of Engineers last Saturday evening, Mr. Bernard Price, the new president of that body, and the Chief Engineer of the Victoria Falls Power Company, Limited, dealt with the power companies' experience in dealing with certain German concerns, because, as he said, he did not think a better example could be cited of the methods which our enemies have diligently pursued in their attempt to attain supremacy in the industrial world. The Victoria Falls and Transvaal Power Company was promoted by British interests and every effort was made to raise the necessary capital in Britain. Unfortunately, these efforts failed, and in the end certain German industrial banks took up debentures on condition that the main contracts were placed in the hands of German manufacturing concerns with which they were allied. As a result the A.E.G., of Berlin, obtained important contracts on favourable terms. It was unnecessary for him to enlarge on the advantageous position in which the A.E.G. were thus placed, but he would emphasise the fact that the whole arrangement was the direct result of the German system of industrial banks, under which financial assistance rendered to an industrial undertaking such as a power company became the means of assisting German manufacturing firms. Needless to say, this initial arrangement was not continued, and as the power scheme grew and proved its worth, capital was raised in London at the rate of no less than £1,000,000 per annum and quite independently of German banks.

#### British v. German Methods.

The A.E.G. then became faced with keen competition, but this did not deter them in their effort to secure contracts for the additional plant required. On the contrary, they at once reverted to the policy of dumping their goods at low prices. When in 1912 certain large and important contracts had to be placed, the power companies spared no pains to mduce British manufacturers to oust their German competitors, but it became clear that the A.E.G. were prepared to accept the same guarantees as British firms, to undercut their competitors' bedrock prices, and to give better deliver-It must be remembered that, although feelings of sentiment ran high to-day, no purchaser in 1912 would have been prepared to sacrifice large sums of shareholders' money m order to avert the dumping of German goods. In the end the Germans secured most of the contracts at prices largely below those offered by their British competitors. factories of the A.E.G. had been written down to the nominal value of one mark in the books of that company. The concern had financial holdings in a number of power supply companies in Germany and other countries, which companies were forced to purchase their requirements from the A.E.G. at lucrative prices. In addition to that, the Cartel system maintained the prices charged to German purchasers at home. It was not difficult, therefore, to understand why the A.E.G. had been ready and able to dump its surplus production in foreign countries and powerful weapons would be required to prevent a repetition of such dumping after the war. It was no use talking of boycotting German products. In the long run British firms must compete on price if they were to secure the market, and that would not be easy. Spenking from impressions gained in Germany, Mr. Price emphasised, among other things the importance of the standardisation of product, and said he could not avoid the conclusion that in this branch of industry German competition would not be successfully combatted until British firms found a means of co-operation or amalgamation on some basis which would materially reduce the cost of production. The blame for the lack of standardisation must be shared to a considerable extent by those purchasers who made the mistake of specifying details of design or construction, which more properly fall within the responsibility of the contractor. British engineers were no less skilful than their German competitors, and in his experience the merits of German design had often been considerably over-rated. He cited instances to show that although the two leading German firms were somewhat ahead of British firms as regards time, when developing electrical plant of the size and voltage required by large power schemes, they made many mistakes, and had still to acquire much experience at the expense of their customers.

#### South African Breweries.

The Directors of the South African Breweries, Limited, recommend a final distribution of 7½ per cent. on the ordinary shares and 2½ per cent. on the preference issue. The company is repeating its disbursements of the previous financial year, and that the outlook is not regarded as discouraging may presumably be assumed from the fact that the present dividend on the ordinary shares of 1s. 6d. per share follows an interim distribution of 1s. per share announced last November. The disbursement in cash amounts to £72,395, not an inconsiderable sum to be able to pay away as the result of profits realised in such adverse times.

### RAND KLIP, LIMITED.

(INCORPORATED IN THE TRANSVAAL.)

#### NOTICE TO SHAREHOLDERS.

NOTICE IS HEREBY GIVEN that the Sixteenth Ordinary General Meeting of Shareholders in the Company will be held in the Board Room, Fourth Floor, National Bank Buildings, Simmonds Street, Johannesburg, on Wednesday, the 27th day of September, 1916, at 12 noon, for the following purposes, namely:—

- To receive and consider the Statement of Account and the Reports of the Directors and the Auditors for the year ended 30th June, 1916.
- 2. To confirm the appointment of Capt. J. P. Farrar, D.S.O., as a Director, in place of Mr. C. P. Marais, resigned.
- To elect two Directors in place of Mr. J. Andrew Cohen and Capt. J. P. Farrar, D.S.O., who retire in terms of the Company's Articles of Association, but, being eligible, offer themselves for re-election.
- To appoint Auditors for the ensuing year, and to fix the remuneration of the retiring Auditors, Messrs. Douglas, Low and Co. and F. W. Diamond and English,
- To transact all such other business as may, under the Articles of Association, be transacted at an Ordinary General Meeting.

By Order of the Board,

GEO. W. AUSTIN,

Acting Secretary.

Head Office: National Bank Buildings, Simmonds Street, Johannesburg (P.O. Box 1083), 20th July, 1916.

#### THE GEOLOGICAL SURVEY OF SOUTHERN RHODESIA .- III

Detailed Report of the Director for the Year 1915.

Alluvium.—In the Umguza valley two distinct deposits of older alluvium were separated by Mr. Macgregor. The lower of these beds is a brownish clay, containing scattered pebbles and a good deal of calcarcous matter, often in the form of rod-like secretions. A unio-like molluse and hippopotamus were the only animal remains discovered. The potamus were the only animal remains discovered. upper bed is typically of a reddish-brown to yellow othre colour and is very much more sandy than the clay beneath, whilst coarse gravels are of frequent occurrence, particularly at its base. No fossils were found in this alluvium, but stone implements of the "boucher" type were taken from a fallen mass of the gravelly variety. The lower bed is seen to be over forty feet thick, the upper one more than eighty, and where seen in conjunction the upper bed is unconformable on the lower. A third type of alluvium, consisting of white sand or gravel very similar to that found in the bed of the river at the present day, was also noticed, and may be the last phase of deposition of the upper bed mentioned above. All these beds are well developed in that part of the Umguza valley where the river flows over the Forest Sandstone until it comes down stream to a bar of basalt, which appears to have determined a local base level during the various cycles of erosion and deposition. It was found that the first two types occupy distinct troughs which cross each other and that of the present stream, which has incised its bed to form a gorge fifty to eighty feet deep in the floor of the valley. It is thus possible to establish three periods of erosion and two of deposition in this valley, and in view of the relations described above, it becomes clear that during the periods of erosion the river bed was reduced to base level with reference to the basalt bar down stream, while in the periods of deposition it developed a more even gradient. Mr. Maegregor gives good reasons for believing that these cycles were caused by changes of climate. The periods of deposition seem to point to moister periods when vegetation held most of the rain as it fell and the rivers flowed perennially in beds of even gradient, whilst the intervals of erosion indicate stormy periods of comparative drought, like that of the present day, when the river heds were deepened to local base levels related to rock bars. So far as may be seen at present, the geological history of the country from the beginning of the secondary era is that of a land surface having a comparatively dry climate, varied by periods of relative humidity and of desert conditions. During the last of these moister periods palæolithic man inhabited the country.

Report on a Fossiliperous Deposit on the Bulawayo Waterworks Reserve.

A deposit containing numerous fossil mammalian bones was accidentally discovered by the contractors engaged in heightening a dam on the Bulawayo Waterworks Reserve during the latter part of 1915. The site lies east of the wall of the upper reservoir on nearly level ground surrounded by knolls of the Hillside syenite, and is 30 feet above the level of the valley floor. After preliminary clearing, measurement, photographing and trenching that portion of the deposit remaining intact was carefully excavated and sifted by Mr. Zealley. A large number of bones were collected, which are now being cleaned and determined. They include the bones of carnivores, antelope, swine, rodents, etc., and so far as determined at the time of writing do not include species not now living in the ountry. No human bones, pottery, char-coal or molluscan shells were found, though some of the stones bear evidence of human workmanship. The excavation proved the existence of a hollow about fourteen feet wide ir the syenite in which two kinds of detritus occurred. The lower part is a pebbly wash six to eight feet thick, consisting of decomposing felspar grains derived from the syenite and pebbles of quartz, banded ironstone, agate, etc., some of which are waterworn. It lay directly on the irregular floor

of syenite and nearly filled the hollow. Upon this the bones were accumulated. The upper stratum, which also forms the matrix in which the bones are embedded, is a red loam of the kind which would be formed by the thorough decomposition of the syenite. The bones are partly replaced by carbonate of lime, their preservation being evidently due to tris and to the deposition of calcarcous matter ("kunkar") in the matrix surrounding them. This has added considerably to the difficulty of cleaning them sufficiently for identification. The antiquity of the bones is indicated by the degree of fossil isation, but apparently it does not ante-date the appearance of man in this country.

H. B. MAUFE, Director.

Geological Survey Office, Bulawayo, 31st March, 1916.

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#### ORGANISATION OF INDUSTRY.-III. RESEARCH AND THE

#### Address by Professor Wilkinson.

The success of the synthetic industry, as has been also foreseen, would probably not stop here, and the following quotation from Professor Frankland will snow this: "By varying the ingredients in the imago synthesis, many very valuable dyes related to indigo have been obtained. Thus the chlorine and bromine substituted indigos are manufactured as ciba blue, brilliant indigo, and bromo-indigo. Again, with supplur instead of oxygen, thio-indigo-red and thio-indigo-scarlet. wan suppure instead of oxygen, thio-indigo-red and thio-indigo-scarlet. Moreover, by using the antiracene grouping in the indigo synthesis, a number of the most important colours have been obtained, e.g., indignatures of extraordinary fastness to light; Alizarin indigo; Algol rolours (Robert E. Schmidt), in all varieties of co.our and of the greatest fastness to light.

The knowledge of what was being done in Germany prior to the advent of the marketing of synthetic indigo was not unknown to the advent of the marketing of synthetic indigo was not unknown to the Indian planters, but they were sceptical of the results, many believing that it was an impossibility to prepare the substance from steps whatever to improve either the yield per acre, or the quality of their linished product. Having thus hulled themselves to sleep, their awakening in 1897, when synthetic indigo was placed on the market at a price much below that demanded for the natural substance, was somewhat of a bolt from the blue. Owing to the stress of the competition, which they at last realised would take place, they attempted scene improvements, but as seen above, they were of the competition, which they at last realised would take place, they attempted some improvements, but as seen above, they were somewhat belated. It is difficult to predict with any degree of a curacy whether the natural product would have been entirely ousted, had there been no war, because tradition is hard to kill and there are so dyers who prefer to use the natural dye. On the other hand there can be no doubt that the production of the latter would have been insignificant in comparison with that of the synthetic material, as happened in the previously well-known and analogous case of the dye alizarin, formerly extracted from madder root. The indigo fields would have shared the same fate as those of the madder.

The tannin industry in this Province is in a simi'ar position to that, in which the indigo industry found itself about 1880-82. The master synthesis of tannin was effected in 1913 by Professor Emil Fischer and Dr. Karl Frendenberg, in Berlin. How this has been accomplished will be dealt with fully in a separate paper before of certainty, and the researches are still being continued. The next sep is the commercial utilisation of this knowledge, which means the synthetic production of artificial tannin on a commercial scale from raw

step is the commercial unisation of this knowledge, which means the synthetic production of artificial tannin on a commercial scale from raw materials found in Germany. This, as stated above, in the case of indigo, took seventeen years work and one million pounds in money.

The value of the tannin bark indusry to Natul is approximately three hundred thousand pounds per annum, as shown in the Annual Statements of the Trade and Shipping of the Union (1912 et seq.),

namely:-

#### L-AMOUNTS EXPORTED IN POUNDS. 1912 62,007,314 1913 1914 1915 92,276,338 25,904,174 7,156,368 99,203,808 А В. 32.523.378 30,745,850 8.871.278 16.072.668 6,896.802 4,879,946 7,604,239 Total 118.207.599 145.717.738 130,216,826 89,639,564

#### H .- VALUE OF THE ABOVE IN £ STERLING:

	1912	1913	1914	1915
Α.	145,304	208,192	200,772	?
В.	83,240	68,318	60,735	?
C	. 35,890	17,845	13,872	?
D.	18,576	15,974	11,020	?
Total	233.010	309.329	286.399	307 3114
10141	203,010	,		195,184

Exports to the United Kingdom (A), Germany (B), Australia (C), other countries (D).

The problem, which confronts the industry in this Province, is

The problem, which confronts the industry in this Province, is therefore how, whilst there is still time, to protect it against any competition, which might possibly arise from the presence on the market of an artificial substitute. The answer to this may be put in the form of a question. If, during the years 1880-1896, the indice planters of India had invested one mibbion pounds in the scientific investigation and development of their industry, would they have for one moment feared to have faced competition at the end of that period? This would have meant an expenditure to the extent of between fifty and sixty thousand manufactor animal for seventeen years invested as as would have meant an expenditure to the extent of between fifty and sixty thousand pounds per annum for seventeen years, invisted so as to obtain results, which would not only have made the future secure, but at the same time would also have increased the output annually during the period of the outlay. In point of fact it would in all probability have placed vegetable indigo beyond competition. Moreover, just as India was compelled to export the indigo which she grew, so also must Natal at present export her tannin bark, until the chemical undustry of leather manufacture he established here, in which case the leather would be required to stand the strain of the competitive market. In passing it may be noted here that of the twenty-five large monstry of feature manufacture he established here, in which case the leather would be required to stand the strain of the competitive market. In passing it may be noted here that of the twenty-five large classes into which Germany officially divides material connected with chemical industry, one of the divisions is "tanning extracts" and another "dyes and dye materials."

In both these industries, the production of indigo and tannin, the problems are so very similar, that the lesson of the former should be the incentive for the latter in the superlative degree. It is oft times the wail of the profitmonger that the industry will not "stand the expense," and in annual balance sheets we look in vain for the record of investments in the future of the industry itself. The work of the botanist and chemist are the corner stones, upon which these organisations must not only be built up initially, but also must be conaucted, throughout. Each must have had the highest training possible, must be thoroughly skilled in his work, thoroughly conversant with all that has been done, and must be selected for the work on these grounds and no other. They must be provided, as far as they can be, without stint or question with all that they deem accessary for the prosecution and no other. They must be provided, as far as they can be, without stint or question with all that they deem necessary for the prosecution of their investigations, and results will follow. The days of rule of thumb experience, the legacy of a former generation, are as dead as the dodo, and he, who still clings to them, will be left behind his more enlightened contemporaries as the cab horse is ont-distanced by the aeroplane. The weigh scales and the magnifying glass may have been excellent tools for our great grandfathers, but we desire the microbalanced and the ultra microscope. Iff in pain, we do not despise the versual which the chemist has provided for our case, but as yet we veronal which the chemist has provided for our ease, but as yet we scorn his aid in the prosecution of our industries.

veronal which the chemist has provided for our ease, but as yet we scorn his aid in the prosecution of our industries.

Chemical industry requires a complex organisation, beginning with the chemist, and ending with the patent agent and advertising salesman, sometimes also the machinery for running to earth patent thefts and fraudulent imitations. Its board of control should be self contained, and consist of representatives of each of the main branches, whose qualifications should be that they have specially studied their own sphere of the work, and been at the same time highly trained therein. Industrial success at the present day demands this, and illustrations of the efficiency and success thereby produced are easily obtained. The number and kind of men required will, of course, vary considerably with the particular industry, and in each case requires the exercise of much careful thought before commencing operations.

But at the outset the chemist is the most important factor in chemical industry, because it is in the first degree upon his work that the operations depend. This may seem to some a self-evident truth, but, as a chemist, I can give the assurance that it is unfortunately otherwise in most instances in this country with, of course, results which are easily foretold; in fact, this is one of the main reasons why our chemical products are not up to the standard of imported goods. Given the chemist and the problem of the industry to be undertaken, the next procedure is its complete investigation, in other words, to ascertain as much as possible of what is already known, for which access to a good technological and scientific library is required, and then to carry out, after complete analyses of the raw materials have been made, such tests on a small scale as will give some clue to the establishment of a properly-equipped labaratory is indispensable. If these meet with success, and the industry is undertaken, the laboratory can be utilised to aid the engineer in selecting the best materials of construct research with a view to improving methods of daily control, methods of manufacture, and also the discovery of new methods or processes. Whether any or all of the functions be efficiently performed depends on the equipment and staff of the laboratory, but more especially on the man who is the head. Routine operations soon become, to a certain extent, standardised, and can be carried out efficiently by well-tained assistants, but research work of the beneficial kind can only be effectively performed by the head of the laboratory in touch with every phase of the manufacturing process, or by chemists specially appointed for this purpose, working independently. The value of the work done will manifest itself in the smooth working of the process of manufacture and the sales of the finished product, when compared under commercial conditions with its competitors. It will also be of great assistance to the engineer in the control of his supplies, especially fuel. It is difficult, if not impossible, to assess the value of such a laboratory in pounds, shillings and pence, but on the other hand in the few instances, where they have been installed in this country, they have rendered invaluable assistance and made for efficiency.

(To be continued.)

(To be continued.)

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#### CORRESPONDENCE AND DISCUSSION.

#### H.M. Trade Commissioner and Ourselves.

AN UNSOLICITED TESTIMONIAL.

To the Editor, South African Mining Journal.

Sir,-I beg to thank you for your courtesy in having supplied regularly, for file in this office, copies, as issued, of the South African Mining Journal. In view of the difficulties under which the printing and publishing trade is now working, the receipt of your Journal is the more appreciated. I trust it will be possible for you to continue the courtesy in question.—I am, etc.,

ERNEST GAUNTLETT, For H.M. Trade Commissioner.

Office of the Trade Commissioner (H.M. Board of Trade),

Norwich Union Buildings,

St. George's Street, Capetown, July 12th, 1916.

#### The Del Monte Process.

To the Editor, South African Mining Journal.

Sir.—Can you inform me of the address of the Del Monte Coal Oil Extraction Company, which, I believe, is in England. Is there any agency or means of obtaining particulars in South Africa as to the method of treatment, kind of coal, or all kinds, and results?-I am, etc.,

Capetown,

July 16th, 1916.

#### Springs Township.

To the Editor, South African Mining Journal.

Sir,-For your information, we beg to advise you that the Administrator has granted this company's application to lay out a township on the farm Rietfontein No. 14. The township is bounded on the north by the existing Springs township, on the south by Springs Mines and on the west by the Railway. Springs railway station will serve the township. The new township will be known as "Springs." -Yours, etc.,

THE CONSOLIDATED MINES SELECTION Co., LTD. (Eng.), Secretaries.

per A. F. LYALL.

#### The Rand Selection Corporation, Ltd,

To the Editor, South African Mining Journal.

Sir,—For your information, we beg to advise you that at an extraordinary general meeting of sharcholders, held on the 18th inst., a special resolution was unanimously passed to the following effect: "That the name of the company be changed to that of the Rand Selection Corporation, Ltd." -Yours, etc.,

THE CONSOLIDATED MINES SELECTION CO., LTD. (Eng.), Secretaries.

per A. F. LYALL.

P.S.—Before the resolution becomes effective it will be necessary to obtain in writing the consent of the Minister and to register the new name.

# WRIGHT'S ROPES.

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  —"Financial News."

#### Engineering Notes and News.

# SOUTH AFRICAN INSTITUTION OF ENGINEERS: PRESIDENTIAL ADDRESS.

Points from Mr. Bernard Price's Survey—Review of the Position—Industrial Development and Scienting Research—Rand Power Supply.

Ix his presidential address to the members of the South African Institution of Engineers, delivered on Saturday evening at the Chamber of Aimes, Mr. Bernard Price expressed his recognition and appreciation of the honour conferred by his election as President for the ensuing session. He devoted the first part of his address to a brief survey of the institution's position, with the object of awakening members to a keener and more active interest in the organisation and its work. In his opinion the institution is in danger of slipping downhill just at the time when it should be exerting itself to the utmost. If South Africa is to take its part in the great industrial and commercial campaign which is to follow the war, they who were technical or commercial men must throw their united strength into the fight, and it was through institutions such as theirs that they could make their united effort felt. It is now generally recognised that the commercial prosperity of a nation under modern conditions is primarily dependent on the application of science to the development of the national resources, but methods of government have often betrayed a lack of appreciation of that fact. It was a matter for deep regret that at a time when the stress of war was rousing the Empire to serious thought and bold action, progress in South Africa was so grievously hampered by disunion and racial feeling. country, with its vast resources and enormous possibilities, deserved to be free from handicaps of that nature, and it was devoutly to be hoped that peace would bring a more enlightened and happier outlook so that the serious work of developing the country may be actively prosecuted. The establishment of new industries had been advocated for many years, but apart from mining and agriculture little headway had been made and progress had been left almost entirely in the hands of private enterprise. Mr. Price reminded members of the institution of some of the steps which had been taken by local scientific bodies in this connection, leading to the formation of a representative central committee for industrial research. That committee had already appointed its executive. It seemed to him that by a somewhat devious path a definite and thoroughly practicable method had been reached for dealing with the vital question of industrial development. He was confident that the recommendations of the committee, when they matured, would receive the sympathetic consideration of the Union Government. It was the desire of the council of the institution that the whole question of industries and industrial research should be made a special feature of the institution's procedure during this session.

#### THE INDUSTRIAL CENTRE.

The Rand to-day is the industrial centre of South Africa and is likely to remain so for a long time to come. Every possible facility should, therefore, be given to this centre to enable it properly to educate and train the youth of this country in the arts and sciences upon which future industries and the development of those already existing, will depend. It had been a surprise and disappointment to him that the Union Government should have based its policy in regard to the University question upon an outlook so narrow as to disregard the claims of this centre in the interests of South Africa's industrial progress. Dealing with domestic activities, Mr. Price emphasised the fact that the value of the institution to its members depended primarily on the work which members themselves were prepared to under-Their meetings had been poorly attended; they had been living from hand to mouth as regards papers and contributions to discussions; and the numerical strength of the membership had been steadily falling. Mr. Price made these facts the basis of an appeal for a quickening of interest and support.

THE RAND'S POWER SUPPLY.

As his subject of technical interest, Mr. Price dealt with the "Power Supply to the Witwatersrand." He gave a brief sketch of the Power Company's scheme, confining himself in the main to its general features. In one of his tables he compared the loads and outputs with similar statistics for the largest concerns in America, and this comparison showed that as regards output the Rand power companies came fourth on the list and very nearly third, while in respect of peak load they came second, unless the Ontario Power Company (for which figures were not available) had a load factor of less than about 58 per cent. The output of the Rand companies was still increasing and at present had just reached the rate of 800 million units per annum. The companies are now consuming coal at the rate of something over one million tons per annum, or roughly two tons per minute.

#### RAND'S POWER OUTLOOK.

Finally, after other remarks-dealt with in another article, Mr. Price briefly discussed the future outlook in regard to the ultimate power requirements of the Rand. It looked," he said, "as if in ten years' time the Far East Rand may demand more power than the quantity which the worked out mines will by then have consumed. The Victoria Falls was, in his opinion, one of the most valuable, potential assets of the country, and there could be little doubt that when South Africa's natural resources were actively developed it would be profitable to utilise that water power for industrial purposes. Apart from technical difficul-ties which might conceivably be overcome, the capital cost of the transmission lines would, in his opinion, represent an annual charge no less in amount than the cost of fuel saved. The probability that they would see the Falls electrically connected with the Rand was, he thought, remote, but he looked forward to seeing the power developed for industrial purposes on sites within an economical radius of the Falls themselves. Another development which would no doubt receive serious consideration when peace returns was the electrification of the railways in this district. The power companies had invested close upon eight millions of money in their business and they spend not far short of one million pounds annually on wages, coal, stores, and other material. It may, therefore, he thought, be justly claimed, that this undertaking materially contributes towards the prosperity of South Africa.

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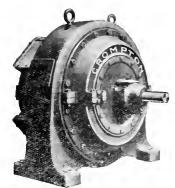
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#### The British Engineers' Association.

The following communication has been issued to British engineering firms, under date June 19th, from the offices of the Association, 32, Victoria Street,, Westminster, S.W.:—
"As president and chairman of the Executive Committee of this Association, we appeal to you at a critical moment for your support and co-operation. The war is often described as an 'Engineers' War,' and there can be no question as to the vital part played by the British engineering industry. One result of the honourable, but heavy, responsibility which was thrust upon our engineers on the outbreak of war has been the inevitable dislocation of our pre-war trade and manufacture. As a consequence, the future contains serious problems which can only be solved by the ablest brains in the engineering trade. The first practical step—as in all struggles on a large scale—is mobilisation. It is notorious that neither in peace nor during the war has the British ergineering industry exerted the influence to which it is legitimately entitled. The cause of this serious handicap has been the failure to combine. The disinclination to combine was due to British individualism and independence. But we would ask you to consider whether the dietates alike of patriotism and business do not call for combination on a large and effective scale in so far as it is vital to secure a national policy which will conserve and foster British engineering. If we lean on Government departments or outside helpers and advisers instead of looking after our own interests for ourselves we shall—as the past has proved be running grave risks. We fully realise the strain and pre-eccupation imposed upon you by the war, but the issues at stake are too urgent to be any longer side-tracked till ' after the war.' It is common knowledge that Germany, and, perhaps, other rivals, are preparing for a vigorous commercial campaign at our expense on the cessation of hostilities. If Germany can do this, so can we. The question is merely one of inclination. The British are the best organisers in the

world, as witness the Royal Navy and our Army of five million men. They are also the easiest people to organise. once their consent has been won, because they are a free people. The time has come for the engineering industry to show the country that it believes in organised self-reliance, and that it is prepared to maintain the supremacy of British engineering against all-comers. The first practical step towards this end is mobilisation. We, therefore, appeal carnestly to you to join forthwith the 300 firms which already belong to the British Engineers' Association, so that we may henceforward present a united front to our common enemies whoever and whatever they may be. The new members whom we hope to welcome will naturally have a say in the coming campaign; and, in order to reduce the call upon the time of busy men to a minimum, we have engaged the services or special organisers to carry out the decisions of our Council and Executive Committee. We believe that we are justified in promising you in the near future a practical return for your support, and we shall heartily welcome your criticisms and suggestions,-Wilfrid Stokes, President, J. E. Thornycroft, Chairman of the Executive Committee.

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#### THE WEEK IN THE SHAREMARKET.

#### Still Dull-Government Areas Improve-Bantjes and Henderson's Options Active,

Business continues restricted, and no one quite seems to know what will be the effect of realising the German goods hitherto bottled up at Home. Had the financial wiseacres listened to the advice of the Committee of the local Stock Exchange all this scrip would have been liquidated long ago, and British investors in receipt of the profits which have accrued between then and now, in many cases amounting to 50 per cent. The main feature of the week has been the advance in Government Areas to a point above anything they have ever touched, except when they were run up at the time of issue. City and Suburbans have also proved a good, though more limited, market. Areachaps, whose nursing up was foretold last week, have put on about 8s., rising from about 16s. to 24s. The report of Springs Mines has not been favourably received. The fact that the average of the payable ore is higher than in Modder B and Modder Deeps has been more than set off by the fact that the percentage of payable ore has been reduced from 51 per cent. to 43 per cent. For the rest, there is very little change. Bantjes have been the jobbers' mainstay for the week, together with Henderson's options. Business has fallen sometimes to a turnover in only eight stocks at the Call. Main Reefs have been rather sought after at higher rates, and there has also been a slight advance in East Rands and Randfonteins. Kleinfonteins are once again on the weak side. Small goods are very much neglected, with the exception of Jupiters, of which the supply at present rates appears to be limited. On Friday morning, the opening business was practically confined to Areachaps, which were raised to 26s. The general tone on Call was weak, espeially in tins, Rooibergs fetching only 10s. 9d. and Zaaiplaats 8s.; Springs dropped to 51s., and Con. Langlaagte to 26s. ed.; Bantjes, however, improved to 13s. 10d.

	Fri.		Sat.		Mon.		Tues.		Wed.		Thurs. 20th.	
		th.	15th.			th.	18th.		19th.			
African Farms .		6*	8	6*	9	0†	9	0†	8	9	8	6*
Apex Mines		6*	5	6*	5	6*	5	6†	5	0*	5	0
Aurora Wests		ÓВ	-	-	11	9*	12	0	12	<b>5</b> *	12	5*
Banties Cons	12	6*	12	7*	13	4	13	6	13	3	13	3
Brakpan Mines	80	6	80	0†	80	0+	77	6*	77	6*	77	6*
British S.A	_		-	-				-	-	-	10	0*
Bushveld Tins	0	7*	0	7*	-	_	-	-		-	0	7*
Cassel Coals	20	0*	20	0*	20	0*	20	0*	20	0*	-	- '
Cinderella Cons		U+	5	9*	5	9*	5	9	5	y*	5	9
City and Subs	_	. ,	30	6*	30	6*	30	6*	-		31	5*
City Deeps	75	0*	76	Ō	75	6*	75	6*	75	6*	75	0 .
Cloverfield Mines	8	3	, š	Ú*	-8	Ü*	8	5*	8	U*	8	0*
	0			_	10	6*	_	_	_	_	10	0*
Clydesdale Colls			4	Ut			_	_	_	_		_
Concrete Constuct.			15	0*			15	0*	14	0*	14	()*
Con. Investments	29	0в	27	6×	28	0*	28	3*	- ' -	_		_
Con. Langlaagtes		0*	18	Ű*	18	6	18	6*	_	_	18	9в
Con. Main Reefs		Ü	18	0*	17	9*	18	3*	18	0*	18	6*
Con. Mines Selections	19	U	10	U	11	0	0	3*	10		10	_
Coronation Freeholds.	_	_		_	2	0*	-	_	2	1*	2	1*
Crown Diamonds	0	3*	- 0	_ 3*	8	3*	8	3*	8	3*	8	6
E.R. Centrals	8		8		3	6*	3	6*	3	5*	3	6*
E.R. Coals	3	6*	1	6 5*	1	3*	1	5*	1	3*	1	3*
E.R. Deeps	1	4*	1	3		J	1	J	1	U	12	ű*
E.R. Minings		-	10	6*	12	9*	12	_ 9*	13	0*	13	3*
E.R. Proprietary	12	6*	12							721.*		21.
E R. Debentures	£72	2		21.*		211		21.	1			6*
Eastern Golds	1	6*	1	5*	1	4*	1	6*		6* 10*	1 2	0
Frank Smith Diamds.			2	<b>3</b> †	1	9*	2	0	1			
Geduld Props	41	6*	41	O.	41	0*	41	0*	41	3*	41	0
Glencoc Collieries	6	6*	-				_	_		-	-	_
Goerz and Co			-	-	***				13	6*		
Govt. Areas	37	9	38	0	38	3	38	6	38	6*	39	3
Jupiters	7	0*	6	9*	7	0*	7	0.		-	7	6
Klerksdorp Props	2	2*	2	2*	2	3*	2	3*	-	-	2	5*
Knight Centrals	13	8	13	3*	13	9*	13	4*			12	10
Knights Deeps	17	6*	17	6†	-	_	18	9.			18	0*
Lace Props	5	3*	5	4*	5	4*	5	4*	5	6*	5	6*
Luipaardsylei Est	-	_		-	-	Par-	-	_	6	6*	14	3†
Lydenburg Farms	7	2	6	10*	6	9*	_	_	6	9*	6	9*
Main Recf Wests	6	3*	6	6*	6	7.	6	7*	6	11	6	9×
Meyer & Charltons .	_	_	101	()*	-	_	-	_	-	_	-	_
Middelylei Estates .	1	1 *	1	0*	1	1*	1	1 *	1	1	1	1*
Modder B's	128	0*	128	0*	128	0*	129	0*	129	0+	129	0†
Modder Deeps	129	Ü	128	6*	-	_	128	0*	128	0.	128	6

<sup>\*</sup> Buyers. † Sellers. a Ex dividend. b Odd lots.

Leuwpoort Tins Natal Navig. Coals National Banks	Fri. 14th. —	Sat. 15th. 13 0*	Mon. 17th. 13 0*	Tues. 18th. 14 0*	Wed. 19.h. 14 6† 16 9*	Thurs. 20th.
New Boksburgs New Etand Diamds New Era Cons New Geduld Deeps .	1 6* 17 0* 5 1	1 7* 	1 6* 18 0* 8 0* 5 0*	1 6* 20 0 - 5 0* 8 0*	1 6* 20 0† 8 0*	1 6  8 0° 4 11*
New Heriots	10 0	26 6 342 6† 0 6*	-	26 3 345 O <sub>A</sub> 0 9†	26 3	25 9
New Unifieds	9 3*  5 0† 95 0*	9 0*	9 0*	9 0*	9 0* 5 0* —	9 0*
Pretoria Cements Princess Estates Rand Collieries Rand Klips	68 0*  3 6† 7 10	70 0*- 1 9* 2 9* 7 9	70 0* 1 9* 3 6+ 7 9*	70 0* 1 9* 3 6† 7 7*	70 0* 1 9* 3 6† 7 7	70 0* 1 9* 3 0* 7 8
Rand Nucleus Randfontein Deeps . Randfontein Est	1 9* 4 0† 12 0* 11 0*	1 7* 3 9* 12 6* 11 0*	1 9* 3 10 12 0* 11 3*	1 10 3 6* 12 3*	1 9* 3 6* 13 0† 11 3*	1 9*  13 0† 11 0*
Rooibergs	8 3* 2 6*	2 6* 2 6†	8 0* 2 6* 1 9*	8 9 2 6* 2 6†	8 6* 2 6*	8 6* 2 6* 1 9*
Simmer Deeps S.A. Breweries	30 0t 4 2 52 0	1 10* 30 0† 4 1* 52 6	1 10* - 4 3 52 9	2 0* 29 0* 4 3 52 6	2 0* 29 0* 4 2 51 6	4 1* 51 9
Sub Nigels	16 0* - 26 3†	16 4½ 64 0* 16 0† 26 0†	16 0*  16 0† 26 3†	16 9 64 6* 16 0†	16 6 66 0†	16 0* 64 0* 15 6†
Van Dyks	67 0† 12 0*	2 6† 67 0† 17 6†	28 0* 12 0*	  120*	66 Ut	65 5 <sub>A</sub>
Village Main Reefs . Vogel Con. Deeps Welgedachts Western Rand Est.	1 0* 	1 1* 20 6† 1 0*	1 1*	1 1*	1 1*	1 2* 1 0*
Witbank Collieries Witwatersrands Wit. Deeps	40 0† 23 6* 10 3*	40 0† 53 0† 23 3* 10 3*	40 0†  23 0* 10 3*	51 0 24 0† 10 6	40 0*  23 3* 10 3*	40 0+  24 0
Zaaiplaats Tins	8 3*	8 3*	8 6	8 6*	8 9	8 0*

#### ANSWERS TO CORRESPONDENTS.

All inquiries addressed to the Editor must bear the writer's name and full address. We cannot reply to inquiries by letter, but telegrams with replies prepaid will be answered. Correspondents are requested to write their names and pseudonyms distinctly.

"Constant Reader" (Standerton).—Prospects are certainly excellent, but you can understand the reluctance of the directors to embark on any scheme of extended operations until the war is over.

"W.M." (Bulawayo).—You seem to have mixed up the name of the farm with the name of the company. The latter seems to have been finished sometime ago, though from the alluvial diggings on the former, stones are still being won.

"Guttershon" (Pilgrim's Rest).—(1) Enquiries being made.
(2) Zaaipalats tin is, like every fin mine, a speculation, and we cannot attempt to explain every fluctuation in the price of the shares. Why not put your questions direct to the secretary. (3) Yes, until more development is done below the dyke. (4) Sakalavas must also, of course, remain a sheer gamble, unless and until oil is struck.

"Too Far East."—We quite agree with your letter. The prospectus is a shocking example of what you say.

"Hendersons."—Yes. The annual report and an official quotation for the options in London are now due.

"R. L. Grey" (Mazoe).—Search being made.

"X.L."—(1) No. (2) Certainly, you should hold on.

# THE WEEK IN THE MINING MATERIAL AND ENGINEERING TRADES.

Mines Holding Somewhat Aloof-Holders Inclined to Realise Big Parcels— Safety Clause in Contracts— Working Old Dumps.

There is no outstanding feature, except the one of dullness. Hitherto the July month has been a good one for the mining material trade, as the mines usually come in after the June stock-taking and purchase much of their requirements for the December half-year. On this occasion they are holding aloof as regards anything resembling pronounced buying for some reasons not easy to fathom. This dullness, instead of anticipated activity, is causing some uneasiness—to those merchants holding large stocks here and with Oversea commitments. Hence a quiet disposition to sell decent lines either spot or for future delivery, but ordinary lines still keep up their values and in most cases are firmer, especially for steel and iron material. Whilst no very pronounced reasons are available, yet from general remarks—heard—it would appear that the brighter war outlook is one of the chief reasons for the lack of buying throughout mining circles.

It has been discovered that the slump in copper values must not be taken too seriously as a guide to the metal market. It appears that the Americans had a strong hold on the copper market in the middle of May, when copper was £140 per ton on the London market, which compares very unfavourably with the present price of £88 according to the last cable advices. At that time, the Americans' and their associates' plan was to delay deliveries in Britain, and full advantage was taken of the Government restrictions as regards dealings then placed on the British metal Exchange. In past periods of inflated values, created by elever American and other manipulators, it appears that nothing but the systematic opposition of the London dealers has broken the back of any such movement. Our authority also added that it frequently happened that the American operators have "run with the hare and hounds," to the extent of being supporters of the price in New York and sellers of copper on the London Exchange.

#### A LOT OF MONEY AT STAKE.

One student of the immediate future states there is a lot of money at stake as regards stocks held and future commitments. He has noticed for some little time that there is a tendency to sell, through stocks accumulating here and the slackness of the demand, which is far below the amount of stocks arriving from Oversea. This accords with his private advices, which state that certain manufacturers cannot quote without the consent of the Ministry of Munitions. However, a very significant remark appears in his communication that some old contracts are, however, being released in order to facilitate commercial shipbuilding and the export trade. This view is supported in every particular, by the goods arriving here and our own official railway returns. These show that the tonnage recently carried is greater than in 1914, which also supports the statement at the head of this paragraph .: "That there is a lot of money at stake, because this increased tonnage means very considerable increased values, for every unit of £100 in value before the war represents £150 at to-day's prices. Here it is advisable to put in a steadying factor as regards the financial aspect of the matter, and that is the mining material merchants on the whole have done well during the war period, because they turned all their stocks into cash and so created good cash reserves for future contingencies. Another steadying factor might well be added, and that is, a responsible manager, controlling big business, states that the man to make big money is the one who adopts a bold policy of still securing plenty of negotiable stocks in advance. At the moment some uneasiness has undoubtedly been created in men's minds, chiefly through the mines' small purchases as compared with their liberal operations in previous Julys. Had their purchasers been in any way active, the unsettled feeling would, obviously, have been less, if not entirely absent.

#### A SAFETY CLAUSE IN CONTRACTS.

Another sidelight in the present trade conflict is the fact that a safety, or precautionary, class is here merted in contracts. The intention is no contracts are contracts an increase or decrease in occan freights cover, also if the custom duties should be altered for better or wire and coveral other lesser points today, but points in prant cases as the war develops.

then, Steel and Hardware.—The started prices of rivets, washers, nuts and holts have so it is near fully revised, all of which, it is hardly nees any time in the local exchange. If every river results and hold made and imported drill hammers are now the sine, owing to the local article coming in as a scrious computitor to the imported hammer. These litting true to results stood at 73d. lb., but now they are both of it. It, and that pays to sell the imported at the price, littis class are heavy and bidders are anxious not to miss the world. This shall not be ignored by the advocates of local industries—and who is not?—because anything made locally for the head of the mines has an excellent chance of coming along to stay.

Local Industries.—A second-hand broker stat s that there is quite a demand for small machines and working tools from the Western Rand, as contractors and speculators are working the dumps on the French Rand nine. What a vista opens to the imagination as to working the old original dumps, which were not treated by the very upto-date processes of to-day. If perchance this new industry gives a living wage to white men, what opportunities there may be in store for the soldiers returning from the front. Kimberley men will remember what a good purpose the diamond dumps often served in relieving the labour pressure in that quarter.

Chemicals, etc.—There is a great shortage of quinine in India and prices have doubled there in consequence. Refined sulphur is now £11, as compared with £61 before the war. Phosphoric acid has risen from £10 to £50. The supply of lime in connection with sugar refining in Natalused to be specially imported in air-tight drams from Britain, but is now supplied from the Cape Province. Caustic soda, which is very difficult to obtain, is 57s. 6d. per 100lb, as compared with the pre-war rate of 25s. 6d. Lithurge was expected to be easier, as it is a lead product; but, evidently, although lead has dropped £83 per ton in Britain, it has not altered its by-products through the shortage of labour in the lead factories. Potassium permanganate is selling at 5s, per lb. instead of 6d, as in normal times. As a substitute the mines are using chloride of lime. The price has risen in Britain from £7½ per ton to £35. Potassium of salts have fallen 35 per cent, through America coming in with supplies for South Africa.

The Freight Question.—The new rates have so far been accepted quite philosophically, and no doubt in due course values will be risen to some extent accordingly. So far, owing to business being dull, obviously the demand is too slack to enable rates to be put up before the new conditions come into play; that is when consignments arrive and

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the enhanced charges actually paid. There is just one fact which should be mentioned, taken from a shipping gazette, viz., that freights had become easier on the East Coast of England through the release of the shipping from the Baltic since the recent naval battle.

#### REVISED PRICE LIST.

Approximate war prices, subject to quick change.-Mining and building hardware: Iron, imported, round up to 1 in., 30s.; 1½ in. to 2 in., 13s. 6d.; 2½ in. to 6 in., 25s. per 100 lbs. Do., square, up to 1 in., 27s. 6d.; 1½ in. to 2½ in., 13s. 6d.; 2½ in. to 5 in., 25s. Flats, 3-16 in., to 2\frac{1}{4} in., 13s. 6d.; 2\frac{1}{2} in. to 5 in., 25s. Flats, 3-16 in., 37s. 6d.; all from \frac{1}{4} in. up. 25s. Angles, \frac{1}{8} in. to 3-16 in., 30s.; \frac{1}{4} in., 27s. 6d.; 5-16 in. to \frac{3}{4} in., 25s., excepting 5 x 4 \times\frac{1}{2} in.; mild steel bar, 4\frac{1}{4} d. lb.; drill, 7lb.; steel plates, 10ft. by 4ft. by 1-16th in., 35s.; \frac{1}{8} in., by 3-16in. 32s. 6d.; \frac{1}{4} in. to 5-16th in., 31s.; \frac{1}{8} in., up to 30s.; 10ft. by 5ft. by 1-16in., 36s. 6d.; \frac{1}{4} in. and 3-16in. 34s.; \frac{1}{4} in. to 5-16in., 32s. 6d.; \frac{1}{8} in., up to 31s. 6d.; \frac{1}{8} in. and 3-16in., 37s.; \frac{1}{8} in. and 3-16in., 34s. 6d.; \frac{1}{4} in. and 5-16in., 33s.; \frac{1}{8} in. and 3-2s., all at per 100lb.; hexagon and cuphead bolts, \frac{1}{8} in. diameter to 2\frac{1}{8} in., 55s., over 2\frac{1}{8} in. 5s. 6d., \frac{1}{8} in. bolts, diameter to 21in., 55s., over 21in., 5s. 6d., in. to 2½in., 50s., over 47s. 6d., ¾in., ξin., 1in., up to 2½in., 45s., over, 42s. 6d.; nuts, ¾in., 10d. lb., ½in., 60s., ¾in., 428. over, 428. od.; nuts, §m., 10d. lb., ½m., obs., §m., 578. 6d., 1½m., 628. 6d., 2im., up, 678. 6d.; vashers, all sizes, 45s.; rivets, 3-16in., 1s. lb., ¼in., 5-16in., 10½d., 7-16in., §m., 7½d., ½in., 45s., §m., 42s. 6d., ¾in. up, 40s. lb.; shoes and dies, 32s. 6d. to 35s. per 100lb.; rails, £23 per ton; picks, 4lbs., 27s. per dozen; shovels, 32s. 6d. to 50s. per dozen; hammers, drills, 6½lb. to 9d. lb.; hammers, drills, 6½lb. to 9d. lb.; hammers, drills, 6½lb. to 9d. lb.; 6 hammers, drills, 6½lb. to 9d. lb.; 6 hammers, drills, 6½lb. to 9d. lb.; 6 hammers, drills, 6½lb. to 9d. lb.; hammer handles (best American), 14 in., 3s. 6d., 24 in., 5s. 6d., 30 in., 7s. 6d., 36 in., 10s. 6d. per doz.; metal, antifriction, 1s. per lb.; galvanised iron, 24 gauge, 6 ft. to 10 ft., 10d., 11 ft. 102d., 12 ft.  $10_4^3$ d.; 26-gauge, 6 ft. to 10 ft., all lengths,  $8\frac{1}{2}$ d. to  $9\frac{1}{2}$ d. per ft. all-round; flat galv., 18 to 24gauge, 32s. 6d.; 26 gauge, 34s. 6d. 100 lbs.; floor brads, 30s.; ceiling, 30s.; wire nails, 30s. to 35s. per 100lb.; solder, 50 per ceut., 1s. 2d. per lb.; locks, rim, 48s.; mortice, 60s. dozen; barbed wire, 22s. 6d. to 25s. 100lb. coil.

Timber: Deals, Baltic, 9 x 3, up to 16 ft., 1s.; over, to  $3\frac{3}{4}$ d. per sq. ft.; Oregon, 4 x  $\frac{1}{2}$ ,  $4\frac{1}{2}$ d.; pitch pine, 7s. 6d. to 7s. 9d. per cub. ft.; Oregon, 5s. 6d. per cub. ft.; clear pine,  $\frac{1}{2}$ in. x 12in.,  $7\frac{1}{2}$ d. per foot; 1in. x 12in.,  $8\frac{1}{2}$ d.; teak, small planks. 15s. per cub. ft.; do., large, 16s.; jarrah, 8s. 6d. per cub. foot; poplar, 1in. x 12in., 9½d.; scantling, 9 x 3, 1s. to 1s. 3d. per foot.

Bricks, cement, lime, etc.: Cement, nominal, 34s. 6d. per cask; Pretoria Portland, 9s. 3d. per bag; 8s. 3d., truck loads; lime, white, 7s. 9d.; truck loads, 6s. 9d., slaked; do., 5s.,; blue, 3s. 6d.; plaster lime, 4s.; bricks at kiln, stock, 36s. to 42s.; wire cuts, 40s. to 50s. pressed, 65s. per 1,000, road transport getting scarce; salt and white glazed bricks, £27 10s per 1,000; tiles, roofing,

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£17½ square; glazed tiles, 10s. 6d. to 17s. 6d. yard; paving cement tiles, 8s. 6d. yard laid; terra cotta tiles, £15 per 1,000; reinforced concrete columns, 6 ft. plain, 22s. 6d., fluted, 24s.; fireclay bricks, £9½, good average, per 1,000; clay chimney pots, 80s. per doz.; fireclay, 37s. 6d. ton on rail.

Oils, paints, lead, oxides, glass: Linseed, raw, 27s. 6d.; boiled, 27s. 6d. per 5-gall.; white lead, 70s. to 72s. 6d. 100 lbs; turpentine, 52s 2/4 galls.; 10/1, 57s.; coal tar, imported, 10s. to 12s. 6d. per 5 galls.; oxide in oil, 30s. to 35s. per 100 lbs.; dry oxide, 21s. to 22s. 6d.; S.A. crude oxide, 12s. 6d.; linseed oil putty, 4s. 6d. per 12½ lbs.; bladders, 35s. casks of 100lbs.; grease A.F. axle, 23s. 6d. to 25s. per 100 lbs.; tallow, 1s. per lb.; White Rose paraffin, 16s. 3d. 2/5; Laurel do., 16s.; petrol, 26s. 6d. 2/4; motor oil, 6s. to 7s. 9d. per gallon; engine lubricating oils, 19s. to 32s. per case; cylinder, 20s. to 35s.; paints in tins, 10d. to 1s. per lb., according to quantity, and if ordered to be mixed, 20 per cent. on pre-war rates. British plate-glass, ¼in., 3s. 6d.; do., mirror, 4s. 6d.; window, 16oz., 1s. to 1s. 3d. foot.

Chemicals: Mercury, £18½ per 75 lb. bottle; bichromate potash, 2s. 6d. lb.; chlorate, 2s. 6d. lb.; permanganate, 9s. lb.; alum, 5d. lb.; carbolic acid, 7s. 6d. lb.; borax, 85s. 100lbs.; cyanide soda, 1s. 5d. lb.; hypo, 6d. lb.; acetate lead, 70s. 100lb.; litharge (assay), 75s. (commercial), 55s. 100lbs.; zinc sheets and blocks, 1s. 3d.

lb.; plumbago crucibles, 5d. per number.

Electrical Goods: Lamps, high volts., British, Holland & American, 16s. to 21s. wholesade, and 21s. to 27s. dozen, retail; carbon lamps, 7s. 6d. per dozen; pure rubber flex, 6d. to 8d. per yard; 3/20 coils of wire, 27s. 6d.; do., 3/22, 23s. 6d.; tubing, 12s. to 13s. 100ft.; keyholders, 2s. 6d. ea.; round blocks, 3½ in., 4s. dozen; lamp holder\_cord grips, 15s. doz.; switches, 5 amp., 13s. to 14s. doz.; British glass shades, 24s. to 36s. doz.; Bohemian shades finished; porcelain shackles, 14s. 6d. doz.; do., bobbins. 16s. 6d. to 18s. 100; cleats, 18s. per 100; P.O. insulators, 18s.; motors, 3 h.p., about £28 to £35, new.



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#### The Week's Meetings.

#### THE NEW GOCH.

Sir George Albu presided at the adjourned meeting of the New Goch Gold Mines, Ltd., held on July 17. He said: This meeting, originally convened for the 20th May, has been adjourned from time to time until today, in consequence of certain negotiations to which I will refer later in my address. The accounts for the past year, which have been in your hands for some time show that so far as revenue from gold production is concerned there has been a falling off as compared with the results of the previous year. The net value of the gold won during 1915 was 2344,140, as against £230,756 for 1914, being a decrease of £236,616, notwithstanding the fact that 3,200 tons of ore were milled last year in excess of the tonnage crushed for the preceding twelve months. The reason for this reduction in revenue is the drop in the grade of the ore milled; the recovery value per ton for 1914 was approximately 21s, 24, whereas the average recovery value for 1915 was only 18s, 11d, per ton—a material difference in the case of a low-grade mine such as the New Goch when applied to a total annual crushing of over 360,090 tons. This, however, is a matter over which we have no control. In view of the comparatively low grade, the working posit for the year of £91,356 may be considered as satisfactory, and this has only been accomplished by means of efficient annuag combined with a careful supervision of expenditure. This view is to some extent confirmed by the fact that, netwithstanding the increase east ompared with the previous year of 4.27d, per ton milled show a decrease as compared with the previous year of 4.27d, per ton.

#### Debentures Redeemed.

Dehentures Redeemed.

You will pernaps remember that a credit balance of £126,362 was brought forward from the 1914 accounts, representing accumulated profits over the preceding two years. This was, in accordance with the decision mentioned in the annual report of your board for 1911, utilised in the redemption of the whole of the ontstanding debendures of your company of £112,475, and in payment of the premiums and interest due on such debentures up to the date of redemption, amounting to £11,923. This practically left only the working profit for the past year available, which was appropriated as to £8,056 in the payment of the Union of South Africa and other Government taxes, and miners' phthis compensation, £1,500 in the purchase of the Spes Bona claims referred to in my remarks at the last annual meeting, £55,000 was distributed to shareholders in the form of two half-yearth dividends of 5 per cent. each, and the balance of £32,023 has been carried forward to the entrent year. As a matter of fact, however, the greater portion of this curry forward is not actually in a distributable form, as it is represented by stores on hand, investments, payments in advance, etc. Turning to the balance sheet, the chief feature is the elimination of the liability for dehentures already referred to. On the other side of the sheet stores on hand increased from £7,733 in the 1914 account to £12,66 in the balance of £28,000. The reason for locking up this considerable additional sum of money is in eonsequence of our decision to raise our stocks to, and as far as possible mintain them at, a standard representing up this considerable additional sum of money is in eonsequence of an election to make the remain importation of himing requirements from oversea so difficult, and deliveries so uncertain, that as a matter of two considerable additional sum of money is in eonsequence when has been to make the remain importation of himing requirements from oversea so difficult, and deliveries so uncertain, that as a matter of twas a sum o

#### The War Levy.

The War Levy.

It will be noticed that we have only included one-half of this company's estimated proportion of the war levy in the 1915 accounts, and that the remaining moiety is to be charged against the current year's profits. We a lopied this course in consequence of an assumince last year from the then Minister of Finance that the impost was not to be regarded as of a pecuring nature, and that therefore it might equitably be apportioned out over two veers. Subsequent to the preparation of the balance sheet, however, it was announced in the session of the Union Parliament that the Treasury tended to make a further levy of £50,0% on the gold mining industry for the iscal year 1916-17. Consequently your company's account for 1916 will be subject to a charge of at least twice the amount debited in this connect on in the profit and loss account for 1915. I may say that we have again received an intimation from the Minister of Pranne that the levy is not to be accepted as a re urring one, and I trust that on this occasion the Minister's assurance may prove correct.

#### Life of the Mine.

As regards the posit on underground, the fully and part ally developed payable ore reserves at the 50st Dec mber last reflect a decrease of approximately 76,000 tons as compared with the figure given in the reports for the previous year. This is partly explained by the remark in the manager's annual report that the faulted nature of the recfs in the lower levels of the property is responsible for developing a smaller proportion of ore for a given footage than is the case when a given footage than is the case when the formation is more normal or regular. In any case, however, we cannot look for the full maintenance of the previous ore reserves in view of the fact that the reserves in view of the fact that the infact area of the property is showing smaller and smaller preportions. During the last year the main neding v.c. has been sunk to the southern boundary, the 19th (or bottom) level is now being driven, and as your manager points out in his report, development work is becoming more and more restricted. Consequently, we are now able to make a fairly reasonable estimate of the unwelvented of able estimate of the unexhausted ore contents of the mine, and this gives us, as far as we can see, a life of between three far as we can see, a lite of between three and four years from the present time. I may say that hid the ground in the lower levels hern of a less faulted discription than that lately experienced the payablore contents would have been appreciably larger and the life consequently more prolonged. Events may, of course, possibly prove that I am wrong in my prediction—t has so often been the case on these fields that a mine is working. on these fields that a mine is working long after the lapse of its estimated life —but I feel it is incumbent on me to issue a preparatory note of warning for the reason that the data now at our disposal indicate a distinctly limited period of existence for the Goch. It must be understood, however, that this estimate refers only to the unexhausted ore contents of the New Goch mine, and does not take into account the lengthening of the life of your company which would be effected by the ratification of the agreement to which I am about to refer.

#### City Deep Claims.

During the last few months we have During the last few months we have been negotiating with the City Deep Company with the vew of arriving at a nutually satisfactory agreement for working a block of all claims belonging to that company, situate immediately below the New Geh mine and forming part of the castern section of the City Deep property. Owing to the position of those claims it is definitely certain that they could be mined more by the by the content of the content

of working costs i rote of a capacity unmayable, but white our row he profitably treated.

The directors rote or distribution of accounts were added to be retirally directors and mailtress condition.

#### CENTRAL MINING.

The 11th dinier g oral meeting of the Ceneral Manag and I vestment Corporation, Line to be well as the board-reem at Xv, 1, beech as Well Buildings, E.C., on Thine-low, Jane 22, 1916. Sir Lionel Phillips, B. st., presided.

The escretary Mr. 1, 19 and having read the metage of them, g is a meaning and also the antiferes in pr. The Critiman and dressed them at the string as fell were. Gentlemen, I do not the kir will be necessary for me to do not you at any great length in row way at the operations of the company for the great length is row way the operations of the company for the great length is row as given by followed, as will be seen by a company son between the accounts now under review, and those of

accounts now under review and those of the previous year. Our liabilities are con-siderably more than covered by liquid assets without taking into account eash or

scendies in enemy countries or with come banks. Shareholders may wonder the true item under the last-named head-counts now before you. This is accounted for by Bulgarian Treasury Bills which, of course, we held before the outb-eak of war. Our helding in British Government securities has been very greatly increased during the year, while the amount under "Head Olice Leen." has very naterially fallen. The £339 000 "at eall and at short notice" is placed with London banks and bill brokers. Advances to "brokers and others against securities" are cound. The sum "Subject to Emergency Rules" has been robe of from £476.000 to £94.000, omitting miner figures, as show, in the accounts, and today only remains at about £65,000.

#### Profit and Loss.

and to day only remains at about £65,000. Profit and Loss.

Turning to the profit and loss account, the balance carried forward to appropriation account exceeded that of the previous year by £35,000. Holding in view the sugnant condition of general business this will no doubt be regarded as satisfactory. I regret that it should have been necestary to use this sum for the purpose of meeting depreciation. While upon this subject you will perhaps pennit me now to rifer to the special resolution submitted for your consideration to-day. I do not think I can usefully add much to the circular sent to you with the annual report. The recommendation to reduce the capital has only been made after the most carnet consideration, and I am sure the adoption of the preposal will prove beneficial to shareholders. The assets of the company have been valued with scrupulous cree and with a prudent recognition of the times. The writing down of our there capital naturally has no real hearing apon the value of our possessions, because whatever our assets may realise, and what ever profits we may succeed in making, are discipled amongst us all on equal terms such partitional proposal relations of the times. The writing down of our hearing and the transparent of doubt that by reducing the capital to-day there is a far better prospect of the intrinsic worth of our shares reaching in time their pre-ent nominal value than by vaiting to liquidate the depreciation gradually by the aborption of profits. I feel justified in saving that if you pass the necessary resolution to be a far to make provision for the redemption of wasting assets.

Gold Mining Industry.

#### Gold Mining Industry.

Gold Mining Industry.

Owing to resignations from the Board, which were brought about through the war, I found my hands very full until the beginning of the present year, when I was able to find time for a flying visit to South Africa, where we have such important interests. Mr. Marriott, the companies e multing engineer in London, accompanies e.m. Mr general impression of the gold mining industry is entificatory, though I am bound to say that the war is beaung a greater effect upon it than a securifly supposed. It would be ungenerally supposed. It would be ungenerally supposed. It would be ungenerally supposed in the hearty support roles of the found from the High Commissions of the first the later of our work. Thooks to their assistance, the requisite suppose and space not a for maintaining methin two are being obtained, although their easi is considerably higher than in hound times. But the cost of supplies, its interest in the only direction in which the reductive is confidering. A great many of our bett men have joined the active forces in S with Africa and in England, and a good to me of our most efficient mechanics a contracture of most far as with less to the mining inchester which is not to be expressed in few rest in a with less to the mining inchester which is not to be expressed in few rest in the wide less to the mining inchester which is not to be expressed in few rest the most of the fine in the men available of the tenter of the time of available with the work is not quite as well done it is in rormal times.

Working Costs.

#### Working Costs.

Reference to the cest sheets shows that working c s's in 1913 were 19s, 2d. per ton, or 1s per ton below 1912; in 1914 they

were 17s. 10½d. per ton, or 1s. 3½d. per ton below 1915; in 1915 they were 18s. 3d. per ton, or 4½d. per ton above 1914. The average for the first fice months of this year is 19s. 3d. per ton, which is a further increase of 1s. per ton above 1915. But I may repeat that these figures do not in my opinion complete the picture, because there are many directions, besides that of working costs, in which the profits may be affected, such as less competency in the extraction and development of clean ore. The cost of realising gold was greater, and the emergency taxation imposed by the Union Government put a burden of an extra £500.000 upon the mining industry. The increased taxation on our mines amounted to 6d. a ton.

try. The increased taxarion on our mines amounted to 6d. a ton.

The death rate on the mines, though slightly higher than in 1914, shows, I am glad to say, a considerable decrease on former years, and there appears every presfromer years, and there appears overy prespect in time of very considerably reducing, if not entirely eradicating, the disease of the Union House of Parliament has taken evidence, and reported upon the subject of preventive measures and compensation payable to sufferers, and their recommendations have been adopted by the House. They will certainly involve additional outlay, but owine to the precautions now taken in mines and the additional outlay, but owine to the precautions now taken in mines and the additional steps which are now to be taken for combating the trouble, I believe in a very few years the amount of suffering and the great outlay involved may be reduced to quite small proportions.

\*\*Grantation\*\* Properties\*\*

#### Corporation's Properties.

It is not possible for me to speak in detail upon all the properties with which your Corporation is associated, and I would refer those of you who are interested in particular mines to the reports and speeches of chairmen at the annual meetings. Some of the properties we are largely interested in have been giving unsatisfactory, others particularly favourable, results. results.

results.

As a matter of general interest, I may say that the gold output of the world in 1915 was £97.000,000, of which the Transval centributed £38,627,000, or about 40 per cent. The mines with which your Corporation is associated produced gold to the value of £14,840,000, equal to 38, per cent, of the whole Transval output. This is the same proportion as for last year. Our contribution towards the dividends of the Witwatersrand goldfields amounted to 50 per cent, of the whole.

I will now touch upon a few points in connection with working and recent development of some of the mines in which you are interested.

you are interested.

#### Crown Mines.

The Crown Mines has been much in the public eye during the past few years. While the toninge nined has consistently increased during the past five years the gross revenue has kept more or less stationary, being the result of a yearly reduction in the average value of the ore reserves. This reduction has taken place as the higher grade deposits in the upper eastern part of the mine have been worked out. Development in the central and western sections of the mine has exposed ore of lower value. An increase of gross profit was expected to result from the greater tonnage crushed, but this has been largely absorbed by other costs which did not enter into the calculations, when the original estimates were made, such as cest of additional mining regulations, sandfilling, and other safety measures, rise in outlay on labour, stores and development.

Owing to the abnormally large supply of hand labour available an experiment upon an extensive scale was recently undertaken to determine whether by mining narrower widths, and possibly leaving behind very low grade bands of reef, a better return could be secured. The results of the experiment under the conditions upon which it had to be conducted were entirely unsatisfactory in that working costs rose to a far greater extent than the value of the ore sent to the mill.

rose to a far greater extent than the value of the ore sent to the mill.

#### Machine Stoping Again.

The old system of steping with machines has therefore been resorted to, but it must

necessarily take a few months to revert to this system, more particularly as so many white miners have joined the colours. During the experiment it may also be observed it was impossible to keep the mills fully supplied, which was a contributory cause of increased cost and decreased profit. The experiment has, however, been of great value in demonstrating the most profitable system of working this property, taking into consideration layout, appliances, and the class of labour available. Raw natives, for instance, of whom a great many had to be used in a large experiment, are scarcely a criterion of what results could be anticipated with trained labour. As it is obvious, however, that the nines of the Witwatersrand are usually dependent upon a considerable percentage of raw boys, it follows that only a moderate amount of stoping by hand labour can be profitably undertaken in most cases.

The speculative value of the property most cases.

labour can be profitably undertaken in most cases.

The speculative value of the property lies to the south of the South Rand dyke, but I have no definite evidence to-day upon which I should be justified in making a valuation of this section of the country. I do feel able to say, however, that where rich levels give place in depth to a number of poor levels our experience of the Witwatersrand leads us to expect a recurrence of higher values sooner or later. This I have no doubt may prove to be the case at some point south of the South Rand dyke. It may interest shareholders to know, if they have not read his admirable papers, that Dr. Mellor, the Government Geologist, does not support the theory of gradual impoverishment of the beds of the Witwatersrand, although he appears to think that at greater depths the gold may be more concentrated in special channels. I should also perhaps point out, as the chairman of the company did in his exhaustive address, that the unworked ground on the western side of the property, which forms by far the larger reserve of ore north of the dyke, tends to show rather a higher value in development than was anticipated.

City Deep.

#### City Deep.

On the City Deep the ore reserves have been valued at over 40s, per ton for the last three years. The profit has increased by 5s, a ton in the last two years.

The deepest drives, etc., throughout the present mine have exposed ore of excel-

lent value.

lent value.

The crushings on this mine have been at the rate of 56,000 tons per month. An addition to the plant now being made will gradually increase its capacity to 80,000 tons per month. The profits will improve as the extra tonnage is treated. This mine, with its proved widespread deposit of rich ore in a locality once estimated to be of very little value, is a striking instance of high values at considerable depth. I will now mention a less important mine in which we have a substantial interest.

I will now mention a less important infection which we have a substantial interest, the Bantjes Consolidated. This mine has been worked chiefly on the south reef, on which the results of development have been for some time past on the down grade. Latterly, the drives on the main reef leader have shown improvement, and development work loss therefore been pushed of er have shown improvement, and develop-ment work has therefore been pushed on this reef. These new developments repre-sent between 300,000 and 400,000 tons of oro not yet blocked out, of a value of about 6 dwts, per ton. Somewhat over half of the total development done on this reef is giving payable results.

#### Other Holdings.

The Village Deep, in common with the mines above it, has in the course of mining operations passed through zones of varying grades. Some of the deepest workings at 4,000 ft. vertical depth have now opened up ore equal to the best grade that has been worked in the upper levels. This promises well for future develop-This promises ments.

East Rand Proprietary Mines.— The annual report of this company gives explicit information which I cannot useexplicit information which I cannot usefully add to. I may observe, however, that the water dyke has proved a great obstacle to development. A courageous programme to open up areas at lower levels is being undertaken, as the result of which I hope that ore of a better grade than that exposed for some time past may be found. be found.

In Modderfontein B the reserves have In Modderionem is the reserves have increased in value as development has progressed, and the profit per ten has consistently increased each year since the commencement of crushing in 1911. The prospect of maintaining its high rate of

profit is very good.

The New Moddlerfontein still holds its position for great stability as a mining

while the reserves have been largely increased in amount they have held their grade, and the profit per ton has been nearly doubled during the last five years.

The crushings last year averaged 51,000 tons per month. An addition to the reduction plant is in course of construction, which, when completed, will bring the capacity for treatment up to a total of 90,000 tons per month. Some of the ordealt with by the increased plant will be of a lower grade than that at present being mined, but the results of the surrounding properties indicate a maintenance of the properties indicate a maintenance of the general average of values throughout the life of the mine.

I do not think it necessary to refer

other mines, as in those cases either the smallness of our interest or the normal out look renders it unnecessary to detain you.

#### Robinson Deep-Booysens.

Your Corporation is, as you know, largely Your Corporation is, as you know, largely interested in the Boospens Block, comprising some 342 claims south of the Robinson Deep. The project of amalgamation between the two concerns had been under consideration for some years. From a technical point of view there are few coses in which the advantages of amalgamation are so obvious. The Robinson Deep owns two shafts, large reduction works, and the aboretaining general surface equipment, two shafts, large reduction works, and the appertaining general surface equipment, but, for the prolongation of its life, needs additional mining ground. Booysens owns such mining ground in the most favourable relative position, but is without reduction plant, surface equipment and shafts. The problem of the amalgamation, however, offered some difficulties, because the assets of the Robinson Deep could, on account of the far advanced stage of development, be estimated with a considerably degree of of the Robinson Deep could, on account of the far advanced stage of development, be estimated with a considerable degree of accuracy, while the value of the practically virgin Booysens ground is a quantity unknown; indeed, the estimates of the engineers concerned differed widely. The problem has, however, been solved, I think, in a very satisfactory manner. The Robinson Deep shareholders have been allotted preferential shares, called "A" shares, in a new Robinson Deep Company, by which the full return of all henefits which could possibly accrue to them has been safeguarded. Booyeens, on the other side, have been granted "B" shares, which will enter into the dividend paying stage some four years hence; the amount of the dividends payable to them will to a very great extent depend on the value of their own ground, which can now be worked under very favourable conditions, as the fresh capital required for exploration purposes will be reduced to a minimum.

#### Guarantee of Capital.

The Consolidated Gold Fields, however, and our Corporation have undertaken to advance jointly up to £350,000 for such exploration purposes if, and when, required, so that no restriction of development is to be anticipated for want of funds. The sinking of a large new vertical shaft on Booysens Block has in the meantime been started. An option over 100,000 "B" shares at par has, in consideration of the facilities offered, been granted by the new Robinson Deep Company. The principal advantage of the whole transaction consists in the conversion of assets, which have for a long time been dermant, into negotiable securities. Daggafontein.—As stated in the report, we have taken a hand in the exploration of the mining rights on the farm Daggafontein, situated on the far Eastern Raud, and adjoining the farm Ricotfontein, on which the mining rights of Springs Mines, Limited, are aituated. The mittial amount of working capital provided for amounts to £350,000, and may go far towards teating and opening up the ground, especially as there is one large deep level shaft down to the reef already, apart from a fair amount of The Consolidated Gold Fields, however,

surface equipment. The shaft has in the meantime been manifered and development operations state; It is assumpting of the shaft confirmed the good values already reported. Given favourable results the scheme unicidying the formation of the new Daggadontein Company provides for sufficient funds to bring the mine to the producing state.

sufficient funds to bring the mine to the producing stage.

Purchase of Claims on Vegelstrinsba: You will have seen in the report a reference to our joint purchase with the Rand Mines of 862 36 claims, for which we paid a comparative y small sum of money.

#### Far East Risks.

Having regard to the great rick involved Having regard to the great risk involved in opening up ground on the far Eastern Rand, I am bound to say that I regard the value of virgin soil as of very small moment compared with the large outlay required for testing it. According to the late-t-centilic information, we may expect to find in that region sections of highly payable ground, and sections adment, if not entirely, barren. A great deal of that country is overlain by dolonite formation, which, as everyone knows, harbour-large reservoirs of water. The ceet of sinking shafts there on that account may be much higher than on the Central Rand. Generally speaking, it may be said that Generally speaking, it may be said that from £800,000 to £1,000,000 has to be speat there upon a given property before any definite knowledge is secured to indicate final success or failure. Before we joined defined knowledge is secured to indicate final success or failure. Before we joined in the enterprise with regard to Daggafontein we had the advantage at least of the information supplied by one deep level shaft which had encountered the reef at a payable point. It would be folly, however, to shut our eves to the speculative nature of deep level enterprise in that locality, good as the results have been it some instances, notably those of the Mod derfontein, Brakpan, and Springs areas. But there are in the neighbourhood also mines upon which large capital outlay has been incurred, and the reefs encountered without encouraging results. I mention these dormant areas now because I think it is to be regretted that the Union Par liament closed its session without amends ing the pre-ent law under which there does is to be regretted that the Union Parliament closed its sesson without unending the pre-ent law under which there does not seem much likeliheed of placing them. As deep level blocks take years to bring to the producing stage the sooner the work of sinking shafts begins the better for the country. country,

#### State Mining.

Some local agitation by those who advoeate State industrialism has arisen in favour of the Government undertaking the work itself. I see that the Minister of Mines announced that the Government is considering the appointment of a Commission sion to investigate during the recess the feasibility of State mining.

If the Union Parliament after inquiry

sanctioned such a course of action we should watch its operations as large tax

should watch its operations as large tax-payes with attention, anxious interest, and whole hearted good wishes for its success.

I think that such ventures are best left to private enterprise, but the point is that about five years are required to find out whether a prize or a blank is drawn, and it is hence advisable to get a move on. out whether a prize or a blank is drawn, and it is hence advisable to get a move on. I ventuce to point out, however, that the revenues of the State are far more benefited by the active working of mines—in Customs, railway revenues, etc., from mining machinery, supplies, and the wants of the population—than from any direct profit State ownership could bring. Moreover, private enterprise has to shoulder the burden of possible failure. The best method of dealing with such property is, I think to get substantial people to take the risk and to do the work naturally with an economy in their own interest not always agreeable to the advocates of State enterprise. In the event of success the State might reasonably allow them a preferential charge upon profits to cover interest on actual outlay, and then divide, in proportions to be agreed upon, any surplus profits. Unless these areas contribute there will be a serious decline in the gold output, with adverse consequences in the sphere of employment and in the annual exports and revenue of the country.

#### Bewaarplaatsen.

Bewaarplaatsen.

The House of Assembly has adjourned with at naving each with the bewaarplaaten question of a set that the house processes a morested. The line is floweriment is independ to a set time of floweriment is dedged to a set time of the question on terms of the besses. Commissions report, but has she yet the question over several sessions. Fir political considerations, a course of presenter entits is hardly dignified or good for the count of the country. Large some of the areas concerned. The moral title by fresholders to haif of the proceeds as not open to question, and the larger the matter is deferred the more embarrasing to the finate as a tration. In the face of the available a decree and the findings of the Special Commission appointed to inquire interactions and the discountries. The more appointed to impure the all the discountries which presented its exhibits a form the disquiring. The state of internal politics may provide a just festion of redefering section in directions where the all considerations may be deemed it have a borring, but in a case of ordinary equity such conderations should not, and cannot honourably be allowed to indicate.

#### Enemy Shareholders.

Enemy Shareholders.

A cause of saxiety for the directorates of South Mirican gold imming companies arose during the year in connection with the vesting orders made by the English High Court four-tunit to Section 4 of the Trading with the Enemy Amendment Act, 1914), which conferred on the English custodian power to transfer shares registered in the names of enemies. There may be some misunderstanding as to the basis upon which the custodian would give an order for the transfer of shares. Such an order for the transfer of shares. Such an order for the transfer of shares. Such an order is only given as the result of an application to the High Court by a creditor in this country against an enemy shareholder, and I give this explanation in order to dispel the idea that the provisions are in any sense a step in the direction of confiscation. The companies registered in South Africa are naturally subject to the jurisdiction of the Courts in that country, and, if they had obeyed such vesting orders without being protected by corresponding legislation in the Union, they would have been liable to have been successfully sued in South African Courts by enemy shareholders after the war. An action to test the valletive of these orders so far as they affected. South Mirican companies, and to help to define the scope of legislation required in South African companies, and to help to define the scope of legislation required in South African companies, and to help to define the scope of legislation of his Government, certain particular was good enough to cable out, for the consideration of his Government, certain ferdants. In the meantime an Enemy Trading Bill was introduced in the Union Parliament, and the High Commissioner was good enough to cable out, for the consideration of his Government, certain amendments which I submitted to him. These were accepted by the Union Government, and incorporated in a revised Bill, which has now been passed. A copy of the Union Act has not vet been received, but I understand that the companies are nerpetually indennified in respect of moneys representing dividends due to enemies which were paid over to the public trustee prior to the commencement of the Act, and are also authorised to register and act upon the vesting orders made by the English Court. I gladit take this opportunity of acknowledging the readiless with which our representations were received and acted upon by the High Commissioner for the Union of South Africa and by the Government of that country.

Other Interests.

#### Other Interests.

Sudan Plantations Syndicate, Limited,
-The Corporation's interest in the Sudan
Plantations Syndicate remains practically
uncharged. The prospects of the Syndicate may be considered satisfactory, but the cate may be considered satisfactory, but the negotiations with the Sadan Government in connection with the sadan Government in connection with the development of the Gezira Plain remain in absyance. Through the lamented death of Lord Kitchener, who was greatly interested in the development of the cotton growing industry in the Sudan, and whose effects towards improving the conditions of the native population were eminently successful, that province, unfortunately has lost a sincere friend and a staunch supporter. Perhaps before I pass on I may say that I believe the negotiations with the Sudan Government will shortly be resumed on this very important matter concerning the development of the

Gezira.

Standard Alcohol Company,—The investigation into the affairs of the Standard Alcohol Company, to which I referred last year, has not shown encouraging results. For this reason your Corporation and the other London stockholders refused to provide further funds, and the company had to be put into the hands of receivera. Although at one time it was feared that the whole of the capital sunk in the enterprise would be lost, a scheme of reconstruction was eventually evolved which received the sanction of a majority of the share.

the sanction of a majority of the share-holders, and bids fair to preserve existing interests, although in a considerably at-tenuated form.

#### In Trinidad.

In Trinidad.

Trinidad Leaseholds, Limited.—The development operations of Trinidad Leaseholds, Limited, in which your Corporation is largely interested, continue to show gratifying results. Work is at present being concentrated on the forest reserve property, and in addition to the production obtained from the upper strata high grade oil has been encountered in the lower tertiary series, where a gueher recently yielded some 20,000 barrels of oil in 30 hours, all of which was safely collected. The pipeline from this field to Point a Pierre, a distance of approximately 30 miles, was completed in the epring of this year, and is working satisfactorily. An island jetty has been constructed about a mile from the shore, where vessels of deep draught can safely anchor and receive their supplies of oil through a submerged pipeline connected with the main pipe-line.

Closed storage tanka have also been erected both on the field and at Point a Pierre.

A refining plant, designed to take off the

A refining plant, designed to take off the lighter constituents of the oil, was ordered in this country some few months ago, and it is anticipated it will be in commission before the end of the year. When this plant is erected and running the company will be in a position to supply fuel oil to the Admiralty specification. In the mean time contracts have been eccured over a considerable period from two sugar refineries in the island, from the Municipal Council of the Port of Spain and others, and deliveries are now being made under these contracts from oil accumulated in open reservoirs. A small bunkering business is also being done. A refining plant, designed to take off the

#### Admiralty's Purchase.

The Government, recognising the excellent work already performed by the company, and the Admiralty having received favourable reports as to the quality of the cil, have purchased a cargo of crude cil, and bave arranged to send a tanker to Point a Pietre next month to take delivery. I have the permission of the Trinidad Lagscholds to make this announcement to I have the permission of the Trinidad Leaseholds to make this announcement to you.

A sufficient number of wells has now A suncient number of weak has now been sunk to secure an output of 1.000 tons per week, but this quantity could, if necessary, be very largely increased in a few months at comparatively small ex

Owing to the war it has been necessary for the company to raise additional loans to enable it to carry on its operations to the self supporting stage, which is expected to be reached by the end of this year. Your Corporation, in view of the encouraging prespects, had no hesitation in providing the bulk of the money required. Having regard to the good work which has been done and is being carried on hy Trinidad Leascholds, and its national in portance, there seems every reason to hope that the Imperial and Trinidad Governments will do everything in their power to fester this promising industry.

Future Policy.

#### Future Policy.

I do not think it is necessary to delve further into the affairs of the Corporation, but I may perhaps profitahly say a word about future policy. During the war we have conceived it to be our duty to pursue a very conservative policy, baving for its aim the strengthening of the financial post-

tion, and in that direction we have made some strides. I have no doubt when peace is restored there will be plenty of openings for safe and profitable business, in which we shall hope to share, but we shall proceed with caution, because it is very difficult to foresee what effect the enormous consumption of capital and piling up of debt by the belligerent countries is going to have. An inevitable outcome will be a change in commercial conditions. It would be profitless for me to speculate upon the radical changes in commerce which may result from fiscal changes, but I feel bound to reiterate what is common knowledge among men of affairs, that the stress of life is bound to be more severe than hitherto. Changes will no doubt demand a regeneration of industrial methods, habits and practices, and this will have an effect upon us all from the top to the bottom. But for the restoration of pre-war prosperity two paramount duties will be demanded from us all, theroughness and hard work. Those are watchwords for all who hope to lead their fellow-men.

Board Changes.

#### Board Changes.

Board Changes.

I referred in the earlier part of my speech to resignations from the Board. I am happy to tell you that we have succeeded in securing the services of two new directors, the confirmation of whose election comes before you to-day. Mr. H. Ross Skinner is well known to all who have been connected with the Witwatersrand. Sir Sothe, I Holland was well known in South Africa as the British Trade Commissioner. Both he and Mr. Ross Skinner have been rendering valuable service at the Ministry of Munitions. Mr. Ross Skinner, I am glad to say, has so far completed his work in that department that be has been able for some time to give us a portion of his time, and will shortly cease to have any connection with the department. It is his intention to proceed to South Africa early next month, where he will stay as resident director. Sir Sothern Holland is still needed by the department, but I am hoping that he will also be free to give us all his time by the end of the present year. Besides the services of these two gentlemen, I may add that our consulting engineer. Mr. Rugh Marriott, was also for a considerable time engaged in organisation work in the sene department.

engaged in organisation work in the seme department.

Many of our associates are verying at the front, and some of them, also, have been killed and wounded. Colonel Wooge, who was manager of the Transvaal Compolidated Land Company, and had seen a good deal of service in South Africa, joined the forces bere, and was unfertunately killed in France. In the loss of this gallant officer I have also to deplore the loss of a personal friend.

I will not close without paying a tribute to the managers of the Corporation, both here and in South Africa, and to the staffs who have given us good and loyal service under very trying conditions, owing to the shortness of men consequent upon numerous enlistments. I now beg formally to move the adoption of the report and accounts.

Mr. Georgee Rouliot: I have much pleasure in seconding that.

Report and Accounts Adopted.

#### Report and Accounts Adopted.

The chairman having invited discussion and no questions having been asked, the motion was put to the meeting and carried unanimously

minimously.

The Chairman: It gives me great plea sure new to move that S.r. R. Sothern Holland and Mr. H. Ross Skinner, who were elected directors on December 31, 1915, and who retire in accordance with the articles of asseciation, be, and they are hereby, re-elected directors of the Corposition. poration

peration.

Mr. Chirles Pakeman seconded the resolution, which was unanimously adopted.

The Chairman: I also move that Mr.
Octave Homberg and Mr. Raymond W.
Schumacher, who retire by rotation, be,
and they are hereby, re-elected directors
of the Corporation.

Mr. Otto Beit seconded the motion, which
was unanimously agreed to

On Delt seconded the motion, which was manimously agreed to.
On the motion of Mr. Frank Robinow, seconded by Mr. Pakeman, Mesers, Cooper Brothers and Co, were reappointed auditors of the Corporation.

#### Reduction of Capital.

The Chairman: I now come to a very The Chairman: I now come to a very important resolution, viz., that with reference to the reduction of the capital, and will move: "That the capital of the company be reduced from £5,100,000, divided into 425,000 shares of £12 each, to £3,400,000, divided into 425,000 shares of £8 each, and that such reduction be effected by cancelling paid-up capital which has been lost, or is unrepresented by available assets, to the extent of £4 per share upon each of the 425,000 shares which have been issued and are outstanding and by reducing the nominal value of such chares to £8."

Mr. T. J. Milner seconded the motion.

Mr. T. J. Milner seconded the motion, which was carried unanimously.

The Chairman: I should like to mention that the special resolution which has just been passed will be submitted for confirmation to an extraordinary general meeting to be held on Friday, July 14, 1916

I may add that this meeting is a very representative one, and that we have an even larger representation this year than we had last.

Mr. F. J. Dormer, in moving a vote of thanks to the chair, referred to the strain imposed upon directors in these auxious times. When things are going strain imposed upon directors in these auxious times. "When things are going well," he said, "directors scarcely require the assu ance that they have the full support and confidence of their shareholders, but in times like these such an assurance is valuable to them." He then moved the vete of thanks, and commended the excellent manner in which the business of the Corporation had been conducted during the past 12 months.

Mr. F. A. Robinson seconded the vote of thanks, which was carried unanimously. The Chairman having expressed his appreciation of the compliment, the proceeding terminated.

#### VILLAGE MAIN REEF.

#### CHAIRMAN EXPLAINS THE CAUSES OF REDUCED PROFITS.

The twenty-fourth ordinary general meeting of the shareholders of the Village Main Reef Gold Mining Co., Ltd., was held on June 23rd, at Salis-bury House, London-wall, E.C., Mr. M. A. Brumston (daairman and man-aging director) practiding

aging director) presiding.

The Acting Secretary (Major F. de
M. Cunynghame) having read the
notice convening the meeting and the

ontce convening the meeting and the report of the auditors.

The Chairman said:—Gentlemen, with your approval, we will take as read the report of the directors, the reports of Mr. Stuart Martin, our consulting engineer, and of Mr. Hilton, our manager, and the andited accounts. It you will be good enough to refer to the balance-sheet, you will see that there is no change in our £472,000. counts. If you will be good enough to refer to the balance-sheet, you will see that there is no change in our capital, which remains at £472,000. Our reserve account having been closed, this item no longer appears. The contingent liabilities on shares hell not fully paid amount to £6,111 2s, about £340 less than last year. On the other side of the account I would call your attention to the item machinery plants, tools, and equipment, the amount of which has been reduced from £89,751 [3s. 4d. to £3,655 2s. 6l., the difference being sale, during the year. The amount set against stores and materials is considerably greater than last year, and this is no doubt accounted for by the fact that in common with other mines we have had to carry larger stocks to insure against possible stoppage from temporary shortage of supplies Investments at cost appear as £192,863 3s. 9d., being considerably less than last year. This difference 2192,863 3s. 9d., being considerably less than last year. This difference is mainly accounted for by the depre-

ciation in the market price of our ahares in Village Deep, Ltd. If you will turn to the appropriation account you will see that we have written off £14,634 l6s, against investments. The amount appears to be a large one, but I would remainly you that we are not the only company which has foun it prudent under present conditions to write down investments. Our profit and loss account is ments. Our profit and loss account is, I regret to say, not so satisfactory as the previous year. The balance we the previous year. The balance we carry to appropriation account is only 2110,795 13s, 9d., as compared with \$230,789 15s, 7d. last year. But we have not only had a serious accident at the mine, but the value of the ore recovered has been less and the working costs higher. The value of the ore milled was 3s, 3.991d, per ton less than last year, and the working c sts were increased by 3s, 7.954d, per ton milled. We paid an interim dividend of 4s a share in June last, but our position did not warrant the payment of a final dividend at the end of the or a man dividend at the end of the year. The reserves are estimated at 635,050 tons, which indicates a life of about two years. The average value of the gold in these reserves is 29s. 8d. per ton of a final dividend at the end of

#### Effects of Earth Tremors.

It is with great regret that I have to call your attention to the further movement of strata which took place in September last, and which was at-tended with somewhat serious results. You will remember that at our last meeting I had to refer to the damage caused in the main shaft by the subcaused in the main shaft by the subsidence of ground, and to explain to you that the reduced profits in November and December, 1914, were principally attributable to the occurence. Last September another movement of strata took place, resulting in a further subsulence, which affected the vertical and incline shafts on the 9th and 10th levels. Hoisting from the lower levels of the mine was entirely suspended, and new connections had to be made through more solid ground, together with new ore bins before the be made through more solid ground, together with new ore bins before the delivery of ore to the surface could be fully resumed. The repair work occupied three months, and a loss on entrent workings of over £39,000 was incurred. This loss is, of crurse, quite apart from the loss of profit on the ore crushed during that period. There was, I regret to say, some loss of life; but this was, fortunately, minimised owing to the fall occurring just before the lowering of the day shift als you may have observed from the latest returns, a profit of £16,719 was real-sed during last month, and from this it would appear that the working conditions were then normal. working conditions were then normal. We are, however, cautioned by our consulting engineer (Mr. Stuart Martin) against reliance in the future on continuous mining up to the full capacity of the reduction works, and be edited to the the full capacity of the reduction works, and he advises us that frequent shocks are still to be looked for as the excavated areas become more extensive cavated areas become more extensive and the overlying rocks subside. He assures us that every preclution is being taken to protect the workings which must be kept open for mining purposes. A report on the subject of these earth tremors has been recently made by the Witwatersrand Earth Tremor Committee, consisting of the Government mining engineer, the Union astronomer, and a representative consulting engineer. The report states that shocks began to attract attention in 1907, and that since that date they have increased in numtrace attention in 1997, and that since that date ther have increased in number and intensity. The shocks consist practically of a single sharp vibration, and differ in this respect from earthquakes, which are made up of 8

train of earth waves. train of earth waves, whose vibrations are generally slower and of greater amplitude than that of a shock. The ceuse of these earth tremors is not, except in rare cases, to be attributed to natural eauses, but in most cases can be tried directly to mining perations. The removal of the rece or reefs over large areas trows to superincumbent weight on to the unexavated pillars, which below a certain depth are mable to bear the weight, and are crushed. Sind falling may disminish the effects, and fit is without doubt owng to our sind-filling open. whose vibraand this in the effects, and it is without doubt owing to our sund-filling operations that the damage done to our mine has not been in the serious.

#### Total Dividend Distribution.

We have made it a practice to make a statement in our report of the amount distributed in the form of dividends among our shareholders. The total now retched is £3,667,143. On this sum we have had to pay toll, and it may interest you to know the result of a calculation I have had prepared. It appears that no less than £64,537,38,94, has been paid in taxation. The detrils may interest you, and they are as follow:—Incometex, £29,271,78, 164.; profits tax, £333,332,38; Union of South Africa Government tax, £151,158,7d.; special South African war key, £7,039; and We have made it a practice South African war levy, £7,030; and French tax, £54,751 17s. 4d. Roughly speaking, no less than one-sevent of our profits have been paid in taxation.
I now beg leave to move:—"That the report of the directors and the audited statement of accounts to December 31st, 1915, be received and adopted, offst, 1915, be received and adopted, and that dividend No. 30, of 2s, per share, free of income-tax, payable to all shareholders registered on June 30th, 1916, he declared "
Mr. T. J. Milner seconded the

#### Holding of Village Deeps.

Mr. H. B. Nash said he had lisof R. B. Mash still he had listened with great pleasure to the chairman's address, our inasmuch as the life of the mine was only two years, he wished to ask whether the directors had considered the advisability considered. bility especially in these times, when money was so settree of distributing pro rata among the shareholders the company's holding of Village Deep shares. He could not at all see the shares. He could not at all see the object of the company holding them; in fact, it was his opinion that it was wrong to do so. They had been acquired out of the profits made in the past; they were the property of the snarcholders; and, having regard to the past of the University of the Calendary of the snarcholders; and having regard the snarcholders; and the Calendary of the Cale the stareholders; and, navirg regard to the short life of the Village Main Reef mine, the time had now arrivel when the Village Deep holding should be distributed. It would be an essymatter, for the number represented one in four of the shares of the Village Main Reef Co. There was no doubt, from the consulting engineer's re-port, that further trouble would be port, that further trouble would be experienced in connection with earth movements, and no doubt the working cost: would be greatly in creased thereby during the two years of life that still remained.

Mr. Astley, in a lengthy speech, sup-ported the views expressed by Mr Mr. Astley, in a lengthy speech, sup-ported the views expressed by Mr. Nash, which, he said, he had himself volced at the meeting two years ago. By taking the course suggested a bone of contention would be removed. Mr. Astley entered at considerable detail into the question of the acquisition of the Village Deep holding. He went on to suggest that the distribution to on to suggest that the distribution to the sharcholders should not be 2s, per share, as proposed by the board, but 4s, per share. The appropriation ac-count showed that the sum of £245.61 was carried to the balance sheet.

which was a great sum, having regard to the fact that the mine had only two to the fact that the mine had only two years to run. There was no possible necessity for any heavy expenditure on machinery and plant, and if further treadle area from earli tremore, necessitating back expenditure on reduced in the consideration of the directors to come for whether they ought not rather to close the mine. Mr. Milner said that the balance of appropriation account included the Village Deep shares.

Mr. Grove asked whether the board

Village Deep shares.

Mr. Grove askel whether the board had available sufficient money to cope with any further earth tremors, if they disposed of the hold ng of Village Deep shares. As the value of those shares was included in the £245,000 referred to, he imagined that the company would be left with no great margin after the lividend proposed had been

paid.

Mr. E. Martin supported the suggestion that the Village Deep shares should be distributed and that the dividend should be increased.

Mr. Gr. ve askel what was the value of the bewarplaatsen rights.

#### Mr. Milner's Statement.

Mr. Milner, replying on the discussion, said: I should just like to say a few words about the investment in Vilfew words about the investment in Village Deep shares. First of ad, 34,926 shares of the Villige Deep accrued to this company on the absorption of the Wemmer Co. Some time after that the directors considered that it would be a wise policy to increase the holding of Village Deep snares, because they then looked upon them as a sound investment, and they have no reason have no reason to alter their opinion to-day. So it has arisen that we have increased the holding, as you know, to 118,000 shares. It is true that these shares have depreciated in value; but tell me what investments have not depreciated in real-ways and the process of the state in value, having regard to the existing conditions created by the war. So far as this investment is concerned, I consider it a good one, and I believe my colleagues share that view. As far as my information goes, the development in the lowest depths of the mine is exceedingly satisfactory, and I have no reason to think that you will be displeased eventually with our purchases. I should just like to point out to you that the dividends paid by the Village Deep Co. have been as follows: In 1911 they paid 10 p.c., in 1912 173 p.c., in 1913 15 p.c., in 1914 214 p.c., in 1915 214 p.c., and this year an interim dividend of st p.c. has been declared.
There is one more point I should like to mention. It seems to be the opinion of certain shareholders that we should distribute these Village Deep shares. All I can say is that I Deep shares. All I can say is that I am quite certain the directors will take your views into their very serious consideration. Personally, I should like to keep up the shares for you until the end of the life of the mine, when the company will be either liquidated, or some other arrangement will be made. I can tell you that there is no scheme of any description before us to-day, but our idea was that we should build up for you this little nest-egg, so that you would have an interest in a mine with a very long life, an interest which we, as I have said, considered at the time to be a very good investment, and which we said, considered at the time to be a very good investment, and which we consider so to-day. A shareholder asked a queetion about the bewaar-plaatsen. Nothing has been settled by the Union Government yet about the distribution of the funds accruing

to the freehold owners.

Mr. Nash asked whether the directors had any objection to the directors distributing the Village Deep shares. and What Mr. Milner said he would ask them to leave it in the hands of the directors for consideration. In principle there was no objection, but they had followed a certain programme by which they thought the shareholders would benefit most. When the Village Main Reef Mine came to an end there Main Reef Mine came to an end there would then be a distribution of these shares, and anything else arising out of the liquidation. They were not, however, wedded to these ideas, and if shareholders particularly wished that the Village Dep shares should be determed the distributed, the directors would give earnest consideration to their views.

Mr. Nash said that at the present time their Village Main Reef shares were declining in value, and share-holders might be compelled to sell and noncers might be compened to sell and pass on to others the Village Deep interest which was theirs. That, he thought, was most unfair to present

shareholders.

Mr. Milner replied that obviously if the Village Deep shares were distributed the market value of Village Main Reef shares would suffer correspondingly, because in that market value was included the value of the Village Deeps

Mr. Nash sa'd that by the distribution of the Village Deeps they would make sharebolders in the Village Main Reef shareholders in the Village Deep, which he understood was the directors' object.

Mr. Milner agreed, and repeated, that the directors asked that the matter should be left to the directors for consideration.

#### The Chairman's Reply.

The Chairman said: As regards this question of distribution, I think I ought to tell you that there is a little difficulty. In the first place, it is very doubtful whether a complia is pictified in distributing assets which may represent the capital of the company. You will remember that at least a por tion of these shares does actually re-present capital. Beyond that there is a very serious question whether it is a very serious question whether it is not the duty of a company to retain, in hand, without distributing it, suffi-cient funds to enable the capital to be intact at the end of the life of the mine. Therefore, we have one or two difficulties of that kind to contend with. Mr. Grove asked whether we have sufficient funds in hand to en-able us to deal with any trouble in the way of earth tremors which may occur way of earth tremors which may occur in the future. We cannot possibly answer a question of that kind. For all we know, the whole of that part of the country might be seriously affected but so for as the experience the country might be seriously af-fected, but, so far as the experience of our engineers goes, we have every reason to believe that any such troubles will not be very seri-ous, and that we have sufficient (if we do not distribute everything) to en-able us to deal with any difficulties at the time the time.

the time.

The resolution was then put to the meeting and carried unanimously.

The Chairman proposed the re-election of the retiring directors (Messrs. H. F. Marriott and P. Buisson).

Mr. C. S. C. Watkins seconded the motion, which was unanimously adopted, and the auditors (Messrs.

Fuller, Wise, Kirby and Fisher) were

reappointed.
Mr. Nash: I think before we separate we ought to thank you and the directors for your kindness to discussing matters so thoroughly with us, and giving us all the explanations we have asked for. I may say I have been quite satisfied that you are willing to do your level best in the interests of the shareholders. I think that in a proposition of this kind we should include our staff out in South Africa, and that our thanks should be given to them for the way in which they have carried out the tedious and trouble-some work they have had to do during the past year with regard to that earth movement. As a mining engineer I know something about the trouble of it myself. I am sure they must have had an anxious time, and it looks as if they would have considerable anxiety during the next two years. I hope the vote will be carried unanimously, and that the staff in South Africa will feel that the shareholders appreciate their work.

The resolution was seconded and carried manimously. include our staff out in South Africa,

The resolution was seconded and carried unanimously.

The Chairman, in acknowledging the compliment on behalf of his collectures and the staff, said he was very grateful to Mr. Nash and the shareholders for the very kind way in which the resolution bad heen proposed and seconded. He could assure them that this vote would greatly encourage them both here and in South Africa. He asured them that this company would always endeavour to consult the shareholders, and listen carefully to their remarks.

The proceedings then terminated

#### New Registrations.

#### LIST OF COMPANIES FOR JUNE, 1916.

Lazarus and Company, Ltd., 109, 110 and 111. Stock Exchange Buildings, Marshall Square, Johannesburg; capital, £1,500 (private company).

company).

Quan Kaison and Co., Ltd., Long Road, Newlands Township, Johannesburg; capital, £800 (private company).

Suliman Ebrahim, Ltd., Eighth and Delarey Streets, Vrededorp, Johannesburg; capital, £1,000 (private company).

The Auckland Park Racing Club, Ltd., 1, 2 and 3, Ockerse Buildings, 66, Market Street, Johannesburg; capital, £85,000.

K's Buildings, Ltd., 279. Church Street Central, Pretoria; capital,

St. 500 (private company).

The British Colonial Industries. Ltd., corner of Albert and Polly Streets, Johannesburg; capital, £1,500 (private company).

Kelly Bres. and Naylor, Ltd., Marathon Street, off Jules Street, Johannesburg; capital, £1,000 (private company).

Katzenellenbogen, Ltd., 279, Church Street Central, Pretoria: capital, £1,000 (private company).

£40,000 (private company).

£40.000 (private company).
Andrew Morkel, Ltd., Railway Coal Siding, Germiston North; capital, £252 (private company).
The Poorar Estate, Ltd., 10. Pioneer Road, Fordsburg, annex Johannesburg; capital, £1,000 (private company).
Monk's Garage, Ltd., 54 and 54a. President Street, Johannesburg; capital, £1,000 (private company).
African Arms and Metal Company, Ltd., 75. Van der Walt Street, Pretoria; capital, £500 (private company).
Vereeniging Milling Co., Ltd., The Mill Buildings, Woods Reserve, Geduld Township, Geduld No. 24. District Boksburg; capital, £30,000 (private company).

Commissioner Streets, Johannesburg; capital, £15,000 (private communication)

company).

company).

B. H. Singh, Ltd., 872, First Avenue, Asiatic Bazaar, Germiston; capital, £1,000 (private company).

Lunat and Company, Ltd., Lunat Buildings, Main Road, Newlands, Johannesburg; capital, £700 (private company).

Singapore Tea Agency, Ltd., 6, Estate Buildings, Fox Street, Johannesburg; capital, £100 (private company).

Cafés, Ltd., Shop No. 8, Corporation Buildings, Commissioner Street, Johannesburg; capital, £700 (private company).

South-West African Trading Co., Ltd., 63, Commissioner Street, Krugersdorp; capital, £4,000 (private company).

Gloria Ashestos Mines, Ltd., Grosvenor Chambers, 36a, Loveday Street, Johannesburg; capital, £5,000.

W. R. Levin and Company, Ltd., 59 and 60, Sauer's Buildings, 43, Loveday Street, Johannesburg; capital, £5,000.

The Kathiawar Estates, Ltd., corner of Trichardt and Kruger Streets, The Kathiawar Estates, Ltd., corner of Trichardt and Kruger Streets, Louis Trichardt; capital, £450 (privaté company).

#### FOREIGN COMPANIES.

Owen Diamond Prospecting Co., Ltd.. care of Thomas Edward Duckles, 83-84, Exploration Buildings, Johannesburg; capital,

Monteleo Diamonds, Ltd., care of Saville Burdett Dowling, 27-28, Bettelheim Buildings, Johannesburg; capital, £45,000. Central South African Creameries, Ltd., care of Alexander Algernon Osborn, 19 and 20. New Court Buildings, Market Street, Johannesburg; capital, £50,000.

#### SPECIAL AND EXTRAORDINARY RESOLUTIONS.

Horner and Company, Ltd., Pretoria; liquidation.
Reserve Investment Co., Ltd., Johannesburg; reduction of capital.
Standard Trading Co., Ltd., Johannesburg; liquidation.
G. Rondi, Ltd., Johannesburg; papointment of liquidator.
United Mineral Water Factories, Pretoria, Ltd., Pretoria; remunera-

tion of directors.

Istvania Gold Mining Co., Ltd., Johannesburg: liquidation.

The following companies have been placed in voluntary liquidation : Horner and Company, Ltd., Pretoria; capital. £2,345.

Standard Trading Company, Ltd., Johannesburg; capital, £25,000. Istvania Gold Mining Co., Ltd., Johannesburg; capital, £12,000.

#### NOTICES OF CHANGE OF ADDRESS.

Tipperary Tea Rooms, Ltd., 91, Pritchard Street, Johannesburg, Ophir Estates, Ltd., 66a, Pim Street, Newtown, Johannesburg, Mineral Farms Syndicate, Ltd., 37, Ginsberg Chambers, corner of Main and Simmonds Streets, Johannesburg, Trimble's Detective Agency, Ltd., 32, Wilhelmina Street, Troyeville, Johannesburg

Johannesburg,
Pretoria Oost Eind School Vereeniging Beperkt, "Rozenhof," No. 10,

Inezstraat, Pretoria.

L. Beerstecher, Ltd., 4, Grosvenor Chambers, Loveday Street, Johannesburg.

Royalty Theatre, Johannesburg, Ltd. (foreign), care of James Blacklock, 33-34. Standard Bank Chambers, Commissioner Street,

Johannesburg. Springs Sporting Club, Ltd., Ockerse Buildings, 66, Market Street, Johannesburg, Shandon Estates Syndicate, Ltd., Eastern Transvaal Engineering

Shandon Estates Syndicate, Ltd., Eastern Transvaal Engineering Works, Middelburg, Transvaal.
Gas Engine Fuel Co., Ltd., 1st Floor, Barsdorf's Buildings, Marshall Street, Johannesburg.
J. M. Potts, Ltd., 279, Church Street, Pretoria.
Valley Stores, Ltd., corner of Eighth Street and Broadway, Bezuidenhout Valley, Johannesburg.
National Investment and Trust Company, Ltd., 88, Permanent Buildings, Harrison Street, Johannesburg.
M. F. Sherwell, Ltd., 218, Commissioner Street, Johannesburg.

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JOHANNESBURG, TRANSVAAL, SATURDAY, JULY 22, 1916.

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OILING .- Eccentric pump, driven by spiral gear on crank shaft.

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Capacity, 12½ gallons.

CONTROL.—Levers in centre of car, mounted on transmission case.

Control lever on ball pivot with locking device for each speed.

INSTRUMENT BOARD.—60-mile speedometer, total and trip mileage recorder driven from gear box. Petrol air pressure gauge. Description of the pressure gauge. Magneto switch indicator. Lighting switch.

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Glove

BOX.—Selective sliding gear type, giving three speeds for rd and one reverse. All gears Chrome Vanadium steel, heattreated

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WHEELS.-12 Hickory spokes, front and rear. Fitted with Standard Welding Company's demountable rim No. 21. Extra rim fur-Welding nished.

TYRES.-32 x 3% inch all around--plain tread front. Non-skid tread

BODIES.—Five-passenger touring. Two-passenger roadster, pressed steel with special finish.

COLOUR .- Ehony black, with dark blue wheels,

UPHOLSTERY .- Real grain leather, stuffed with natural curled hair. MUD GUARDS.—Pressed Steel, attractive crowned design. Linoleum covered, aluminium bound running boards.

WHEELBASE .- 9 feet 2 inches.

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